

ctctggtgtg tttattggca acgtgaaagt cttggtgaga ctttcatttg gaatcagtgc 180  
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gatccacgaa attgtcgcta atggctaaaa acaatagtag aatcgttttt ttttactctt 300  
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gtaagtctgg tttccagttg aatccatcat ttgtcgcacc atcattcttc ctttgacagt 420  
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<210> 40465  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C3

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tcttctgcc agtggaatg ggtcagttac acaaagcctc agtgtcacca acaaccagca 180  
tgccagaaa ccacttgcaa tgcgtatccg gatgtcttac aaagtgaatg gtgaggacag 240  
gctggaacaa gggcaaatca gcaactttcc tgctgggttg tagggccacc tgtgtctata 300  
gggtttgggt tgctctttca gacttatgct tgcctgctag tgagttgtgt aactggtag 360  
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aatgatata 429

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<212> DNA  
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<223> Clone ID: LIB3075-043-Q1-K1-C4

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gctatggtcg ttcacggggc tgtggtgatc cttggcgcgg agtcacagga gctagggatg 180



gacggaatca cccctaattc ctcggtgttg gtttgggcac cgccgcgggc cgttgtgccg 240  
 cgcggtcagt gcatctgcac cacgaattcg tgaggtcacg aggatctgaa gatcacccctg 300  
 gtaactggaa tctcaagtgc aggagaagaa catgtgggtc aagagggcca cgcacgcagg 360  
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<223> Clone ID: LIB3075-043-Q1-K1-C6

<400> 40467

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 cctctgggag gaacttcgca ttcacacag cattcgggtcc atcgtgtgtc tgaatttgcc 180  
 tagtttttct ggaggtttga atccttgggg cacacctggc acgaggagag cagaagatag 240  
 ggagttcact gcaccttttg tcgacgatgg acttcttgag gttgttggct tccgtgacgc 300  
 ctggcacggg ctggtcctgc tggcccctaa tggaccacgg aactcgcatt gccaggcccc 360  
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<210> 40468  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C7

<400> 40468

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 cacatggatg ggggcagaga acatcacggt caagttacct caccttatcc gcgcggtccg 180  
 ccaggctgga cagagtgtca cctgcatcac tgacctgatg cacgggaaca ccatcgagac 240  
 tccttgcgga cgaaagactc ggtcatttga ctccattctg gccgaggtac ggtccttctt 300  
 cgacgtgcac gaccaagacg gaagccagcc tggaggtgtc caccttgaga tgaccgttca 360

gaacgtgacc gaatgcacgg tcgggtcaag caacgtcacc ttcgacaacc tgagagaccg 420  
 ttaccacacg caa 433

<210> 40469  
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 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C8

<400> 40469

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 ctttgccaac attcgtcttg tgaataagtt cttgaagggt gaggttggac ccaagacaat 180  
 ccatgttcca tctggggaga agcttgcaat ttttgatgct gctatgaaat acaagaatga 240  
 agggcatgac actattatcc tggctggtgc cgagtacggg agtggaagct ctctgggattg 300  
 ggctgcaaag ggcccaatgc tgcaggaggt gaaggctgtg atagcaaaga gcttcgagag 360  
 gattcaccgc agcaatcttg ctggcatggg aatcaatcct ctatgc 406

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 <211> 369  
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 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C9

<400> 40470

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 cccatgagcg cacggtcgat ggctcaacgg gcggcgctgt ataagcaaca gcaactcctg 180  
 acggagaaca tgagcttgca tccatctcgt gtaaagagaa catcgtcaag gagatccagc 240  
 gagcagatgc aactgagaac tggaaagcga acgcgaaccc tgaggaacca taccattaaa 300  
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 caaagatg 369

<210> 40471  
 <211> 313  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-D1  
  
 <400> 40471  
  
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 tgcgtttcca ttgccatgct ccttgccttg tgcacattat ataacctcca aactcactag 180  
 gtctatactt actacattct atttgatacc cgagcgtgca tgcaccgctt gaccatctat 240  
 tggaagcccc gttaaattggc gacagaatga tgcatagaat cgtgcaaagt caaacggaca 300  
 atgagagcta cac 313

<210> 40472  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-D10  
  
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 ggcaactgaat gacgctgcct tcgactagta agggcctgga cgaatatctg atcaactcgt 180  
 acatcatctt catgcatggt caactgctta agtgcgagtt cgactccaag gtcacctctc 240  
 acatgcgaaa aggagtactg acccaactac ctggcactga tgcctcaagaa cgtctactgt 300  
 gacagctaca ttggagccat ggacgtcata ggacaaaggc taattcacgt acgatactgt 360  
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 caccg 425

<210> 40473  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-B7

<400> 40473

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ccagcaacca gaggaacta tgccttatgc accagctcag agctatccac ctaatgcaat 180

cgctgcacct tatatgcaac cacctagtgg acctgctcct ccttactatg ggagcaaaa 240

ccctagcatg tatgaacctc ctgcaggccg ggctaaccct gggccaccat catcctacgg 300

ttctggtggg tacgggccac aggggtggagg tagtttctct gaatcttatg gttacactgg 360

atctccttcc caccgtggca atgctggaat gaagcagtct tcaccttttg ctcaatcctc 420

tggaggaagc ggc 433

<210> 40474

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A3

<400> 40474

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caaagggtta tggttttgtg aagtttgggtg atcctaata gcaagctcgt gcaatgactg 120

agatgaatgg catgctatgt tcttctaggc ctatgcgtat tgggcctgct gcaaacaaga 180

aagctactgt tggtcaggag aaagtaccaa gtgctcaggg agttcagtct gacaatgac 240

ctaacaatac aaccattttt gttggtgggtc ttgaccccaa tgtcactgaa gatatgttga 300

aacaagtttt cacccttat ggggacgtaa tccatggtaa gattcctggg ggcaaaagat 360

gtggttttgg tcaatatgct aacagatct 389

<210> 40475

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A5

<400> 40475

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agcagaaggc agaccccgag aagttcgcgg attgcatcca ctggtgcctt cctggcgtgc 120  
 cggacgtgtg gaaccaaata ctctacacga ggattctttc gaaatcatca tggcattcta 180  
 attttagccc cctcccatcc cagtctctgc ctcttctctc ccaatgagaa tcagaagtgg 240  
 gggcttggtt tttgtcggag aatgtatgat ttttcattct ttttccttcc tttttgggta 300  
 gattgagtaa aatgatagca cgaaaaggaa aatgaatgtt ctgattactg atggtatagc 360  
 atgtaagaag attcagctga agtgtaaatt agttgtgagt tagccaattg agaaaacaac 420  
 agcgacct 428

<210> 40476  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A6

<400> 40476

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 cctccgcagg agcatctcaa caccgccttg aggaccccc aactcgccgg ctgcagccat 180  
 ggtgaaatat tcgacggagc caaccaaccc caccaagtca accaaggcca tgggcccgtga 240  
 cctacgtgtt cacttcaaga acaccctga gacagctttt gcccttagga agttgtcact 300  
 caccaaggcc aaaagggtacc ttgaggatgt gattgccac aagcaggcca tcccgttccg 360  
 caggtattgg ggccgtgttg gacgtaccgc tcaagctaag tctcgtcact caaatgggca 420  
 agga 424

<210> 40477  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A8

<400> 40477

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ggtagtgaag ccgacgacgg tgacacgcag ccgctaccgt tccactgcct caacgctgct 180  
gccgagcaac cgaagaagag cttcgatgat cgccgccggg cgcaggtgtt tctgcgtgac 240  
cacatatcca actcgggtcaa catcgtgtgc tacgtcctcc tgt 283

<210> 40478  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A9

<400> 40478

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ggtcgtcgat cgaggaacca agctgctgct gctgctaccg gacgacacca tccatgatac 120  
ggaggaccac cgtgtgecta ggcctgggtgc ttctactact ggcgggcgtcg actgcgacgg 180  
cacatttctc gatcggcgac gtggacgagt acttgaacag gcgcacgcac gagtcccgcc 240  
acaggaacca ctgcggcgcg cacatcaatg acctcatctc cagtgtgtcg cgctttcacg 300  
ccaacgtgga tgcacgcgcg tatg 324

<210> 40479  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-043-Q1-K1-B1

<400> 40479

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gggagagacc gacggcgagg acgcgaggct ggatcacgtg accaagcagc agcacctgct 180  
gcacctgtc ctgcaaatac gaccgtacgg ggacggcatg gagctggggc tcattcttga 240  
ggcgatggac tgcgtcgta tcgagatctt cgaggtctac agcgagatat gcacgggcat 300  
tgcccggttc ctgctcgccg ttctcggtc ggccccgatg acgccacggg cacggncggg 360  
agagacgttg gcggcagcga ggcggccgaa ggcagtcaa gggatgcggg tactggaaaa 420

tgcccgcgag c

431

<210> 40480  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B10

<400> 40480

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atgccaaagg tcagcggatc aggatgagtg cggcataagt gacgcattgg aggcagcaat 180  
aacacgtggc agaatatccc atccaaagag aaatcggctt tgtagtccca taattaccat 240  
tcaggacgaa tgctcgtcaa actcgaagaa tgatacctgc acggctttct gacctgacct 300  
aacttatagc acctgatcgt agtgacg 327

<210> 40481  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B11

<400> 40481

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gcaccacccc gctcaccttc caggttgga agggatccaa gcctggccac ctgacctca 180  
cccccaatgt tgcaaccata tctgacgtgg agatcaaaga gcacgggggc gatgacttct 240  
cctttacgct caaggagggc ccgaccgga cctggacgct cgacaccaag gccccgtca 300  
agtacccctt ttgcatccgc tttgctgtca agtccggtgg ctaccgcac gtcgacgacg 360  
tcatccccgc cgatttcaag gccggcacca cctataagac cacactcagc atctaata 419

<210> 40482  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B2

<400> 40482

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tgatgagagg aaagctagcg aaattactca gcttacaatg ccaaagcttt gtgttcgtct 180  
taacagtcta tattacggta tcagccagtt gagtaagttg gaggacagca ttaatgagag 240  
gtgggctcgg aagaaaagtg aaacactaa catcagacga aaaagtgaag agtcaaagag 300  
tgccgaccct aatcagaaga atcaatttga tggcagcaga aaagaaatca atactgctat 360  
tgatcgtctc tgtgaattta ctgggacaaa ggttatattc tgggacctgc agcagccatt 420  
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<210> 40483

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B3

<400> 40483

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tagcgggtgta gaggcgaaga gaagaacttg accatgagca gcataggcac aggttacgat 180  
ttgtctgtca cgactttctc cccagatggg cgtgtcttcc aggtcgagta tgccaccaag 240  
gccgtcgaca acagcgggac tgttggtggg atcaagtgca aagatggcat tgtcctgggt 300  
gtcgagaagc tggtaacctc aaagatgatg ctggaaggat caaaccgaag gatccattcg 360  
gtgcaccgtc actctggctt ggatgttgct ggtttagcaa cagatggcaa gcaaatt 416

<210> 40484

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B4

<400> 40484



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cacgaagctt ttgagtggct gctgaaggat agtgtggccc tgctggcgta cgagaagcct 120  
gcagaatcat gcttgggata cctgatgggc tctccccagc gtgaattcgt ggcagacgca 180  
gtgaacgcgg ctgtcctgtc gacgaacccc accatgaagg accctgagag ctgcctctac 240  
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aacaacgacc aaggagatgc attcttactc cacaaagaaa tgcaaacct atgaaaggtc 360  
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<210> 40485  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B5

<400> 40485

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gatatttctc taaggaaaaa cactctgaag aatcttataa tttggcttgc attctcactc 180  
tccccccata ccaaagaaaa ggatatggga agttcctgat tgcttttctca tatgaacttt 240  
ccaagaagga aggtaaagtt gggacaccgg agcgccctct ttctgatctt ggcttgctca 300  
gctatagagg ttattggact agagtgcttc tggaaattct aaagaaacat aagggttaaca 360  
tatctataaa ggaactcagc gacatgacgg caataaaagc cgatgacatc ttgagcacgc 420  
tgc 423

<210> 40486  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B6

<400> 40486

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tctctactta cacattagct gctaagaggc atattgactc cactaccatc ttcgacgtcc 180  
aaggggctca catggatcat cctcgagcgc aagcaaactt tgagatcgcg ctgaaagcat 240  
gtcatccctg gaatccttca gttgggagta acatttagtt ccactgtgtg gtttttgtc 300  
tctaaatata ttgctcggca tacatatgtt tgtgatctca tagatttgga ttttgaaccg 360  
ttccaagttc ttaattttgg t 381

<210> 40487  
<211> 156  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G2

<400> 40487

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ttttttttgt ggggtgtggtt aaaaaagatg gataaa 156

<210> 40488  
<211> 334  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-042-Q1-K1-G3

<400> 40488

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ccgcggaggc cgcagaggag ccatcggtgg acgcangcgc cgcggctgag gcggaagcgc 180  
ccgcggaatc ggcgtagaac gaagagtagc cgcgtgtgta tctcctaatt atacgaactc 240  
tgcattcagt aagtagtttt cacaaatcta tatatgttgt tgttatgctg cagcttgggt 300  
ttggtcagtc tgggattgta acacgtgtat gttg 334

<210> 40489  
<211> 315  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-042-Q1-K1-G4

<400> 40489

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ggcctcttcg aggaccgct cccggaccgc cgctcacca aggagctcgg cgcgaggag 180  
caccggggcg tggcgggga ggccatccgc aagtcgctcg tgctgctcaa gaacagcaag 240  
aaggggcagg cgaagccgat gctggcgctg cccaagacgg ccaagaagat cctcgtcgnc 300  
ggcagacacg cccac 315

<210> 40490  
<211> 145  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G6

<400> 40490

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tatagttaa aaagattgac taata 145

<210> 40491  
<211> 198  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G8

<400> 40491

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acctatcatg agcaataatt gcctcttcgc aagggtgaat cccctctaca aacacacaag 180  
tctgtggcga acatgacg 198

<210> 40492

<211> 362  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-042-Q1-K1-G9  
  
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 ggcatcagcg tcggctgcct aggccgctac aaggactaga aggacgtgag cgacatctcg 300  
 gtgctgaact gcgtgctcaa gaacaccatc aactgcgtgc gcatgaagtc gtacgtggac 360  
 gc 362

<210> 40493  
 <211> 431  
 <212> DNA  
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 aacatccgga tgagcgggct caagatcagc gcgccctcca acagcccca caccgatggc 180  
 atccacatcg agcgcagcag cgggatatcc atcatggaca cgcacatcag caccggcgac 240  
 gactgcatct ccatcggcca gggcaacgac aacgtggacg tggcccggtg gcagtgcggc 300  
 ccaagccacg gcatgagcgt cngcagcttg ggtcgctact ccggcgaggg agacgtcaca 360  
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 tgggagaact c 431

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 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H10

<400> 40494

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ctgaaactgg cccgtcaaga gattgcaaaa ttacaagatg acaacagggc attggatcgt 180  
cttaciaaagt ctaaggaagc agctctgctt gaagcggaaa ggacggttca gatggcactg 240  
gcaaaagctt ccttggtgga tgatctgcaa acaaaaaacc aagagttgat gaaacagatt 300  
gagatatgcc aggaagagaa caaatcttg gatagaatgc accggcaaaa agttgctgaa 360  
gttgaaaagc tcacgc 376

<210> 40495

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H3

<400> 40495

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cgccaaccga gtgctacacg tggctgtcgg gaatgatgcc gtgcgcggac ttctcacc 120  
acaacgaggt gccaccgatg ccaccacgg tcgcctgttg tgatggtctc aggtcactcg 180  
tcaccaacgc gtccatctgt ctatgccata tcgtcaacgg taacatcaac aagctcctac 240  
cggcgcccat gatacccggtg cgcattggtg cgtcccccg cttttgtgtt gtccgctttc 300  
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<210> 40496

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F5

<400> 40496

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ccgtcgcggt cctggccgcg cggccggcgt ctgcaggcgg gggagccgcg gcggtggcgg 120

acatctgcat gaagactccg tcccccgacc tgtgcaccag gacggcgggg aagcacgcca 180  
acaagtacaa ggtggtggac gccgtgacgg tgctagagat gcacgtggac gcgttcaaga 240  
agcgcgtgaa agcggggcgg aagc 264

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<211> 334  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H4

<400> 40497

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gcgccaacgc ggtggcaacg ttcgcggtca ccatactggc cgcgatttgc ttcgccgcct 180  
ccttctccga caacttcaac accccgacac cactgcctg cgtaagatc ttgaatctaa 240  
actggttcca gaaggaagcc aacggcaacg acgaggtag catgacgctg aacatttcgg 300  
ccgaccttcc gtctcttttc acgtggaaca caaa 334

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<211> 165  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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acgtcacgtt ctttgacccc aagttcttcc acatggcgct gctgtcggtg aagaacattc 120  
gtatgagcgg tctcaatatc agcgcgccct ccaacagccc caaca 165

<210> 40499  
<211> 235  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H7

<400> 40499

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aactgctgct ggagttggca tgggtgctgc tggcgctgat ggcggtggcag ctttggggaac 120  
aactggccca gctgatgcag ctggcttaac tgcagctgca attggggcctt ctgttgctgg 180  
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<210> 40500

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A10

<400> 40500

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acatgtacca tgggtggaaca aacttcggaa ggacatctgc tgcctttgtg atgccaaaat 120  
actacgacga ggcacctctc gatgaattcg gcctgtacaa ggagcccaag tggggccatc 180  
tgagggacct gcaccaggcg ctgaagctgt gcaagaaggc cctgctgtgg gggacgccgt 240  
cgacggacaa gctgggcaag cagttggagg cgaggtgtt cgagatgccg gagcagaagg 300  
tgtgctggc gttcctcttc aaccacatca ccaaggacga cgcgacgatg acgttccggt 360  
gccggtccta ctctgtgccg cgccacttca tca 393

<210> 40501

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D7

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tacaacataa atgggggttc atatgagctg aatgtctcgg gttctcgggg acctaggcgg 120  
atgaaatgag ttatgcactc catacctacc tcacgccttg aggctgtggg cactgttacc 180  
agccagctgg acagaatcct tgctagatct actgaagaga cattttgcag catttgcttc 240  
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<210> 40502  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-042-Q1-K1-D8  
  
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 cctccttggtc ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc 120  
 gaaagcgccc gggcctgggtg ggtccttcga catcaccaag ttggggcgct cgggcaatgg 180  
 caagacagac agcacgaatg ctgtgcatga ggcattggca tcggcggtgcg ggggactgg 240  
 gaagcagaca atcctcatat ccaagggcga cttccttggt ggacaactca acttcacagg 300  
 cccttgcaag ggcgacgtga ccatccacgt ggatggcaat ctgctggcga ccacggacct 360  
 aagccagtac aaggaccatg gtaattggat cgagattcta cgcgtggata acctggtca 419

<210> 40503  
 <211> 421  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-042-Q1-K1-D9  
  
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 ggattcagaa gcgaggatgg cgacgaccgc gactaggcgg tggaggaggc ggcacgaagg 120  
 cggcgacgat gaccagacg acctcgtccc catggacacc caagagcaag aagagctggt 180  
 ccggtctctg gaggctaagc aggcgcagca aggcgcgcgt tggaaagcgcg tcttcgcggg 240  
 gttcctccta ggttacgcgg tcttccttgt ctactacagt ttccatcatg cttggtctcc 300  
 ctgggagctg cgttaccatg cttacttcat ggaagatttg cctgcaccaa tggtcataat 360  
 tgcaggatta ctacaaaatt catgcccatc aaagaagtgg atgtggtatt cttgctatgt 420  
 t 421

<210> 40504  
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 <212> DNA



<213> Zea mays  
 <223> Clone ID: LIB3075-042-Q1-K1-E1  
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 ggtgagccgg cacacgatcc aggtgtacc tacgtcgtgg acggcggtga tgatgacgtt 180  
 cgacaacgcy ggcattgtga gcatccggtc caacatctgg gagaggcagt acctcggcga 240  
 gcagctgtac gtgagcgtca tctcgccgga gcggtcgctc agggacgagt acaacatg 298

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 <211> 428  
 <212> DNA  
 <213> Zea mays  
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 atatcgccgc ggcacacacg catcttggtc actcctatcc atggttcgaa ttaccgaccg 180  
 aaaagtctgg ttctcggcc aatttctcgt tcccggtcag ctaggggaag catttctcgg 240  
 cccggtatca cattgtaaaa atatgaaagt caattttttt tgttcaaaac gaaatttcgg 300  
 aacagtgaag cgaaaaagtg aagcctgttc cttactatgt tcaaggattt ttgctctctc 360  
 catccacaa ttttcgagca gtatgtcagc ttagaattag gattatttgg tgctgcatca 420  
 ttgatgca 428

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 <213> Zea mays  
 <223> Clone ID: LIB3075-042-Q1-K1-E11  
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atgttgctgg gcagatcttt gatttagctg ataaactaga gcaagctgaa ggccagctgg 120  
cacacagtcg atttggtggg atgattatgc cttcacaacg aaagaaagag caagaagagt 180  
ctccactggc taaggtaaca cgagatagct ccaaaatcac agctgagcag gttcacggcc 240  
tcatgtcaca gggtcataaaa gacatccttt tcaactctgt tcacccgtca agcaagggca 300  
ggccaaagtg cttcaccaga ttcatacaagg cctgagccta tgggtgaagc ctgagttcca 360  
gcgaaagggg acattggata tttgcgttat gctatctgat tc 402

<210> 40507  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E12

<400> 40507

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cgggcaatcc agtcacggtg tacatcactg acatgaacta cgagcctatc gctccctacc 120  
acttcgactt gagcggcaag gccttcggct ccctggcaaa gcccgggctc aacgacaagc 180  
ttcgccactg cggcatcatg gacgtcgagt tcagaagggt gcggtgcaag taccgcccg 240  
ggcagaagat tgtgttcac atcgagaagg gctgcaacct caactacctg gccgtgcttg 300  
tgaagtttgt ggcggacgac ggtgacatcg tgctgatgga aatccaggac aagttgtcgg 360  
ctgagtggaa gcccatgaag ctctcttggg gcgccatctg gaggatggac act 413

<210> 40508  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E2

<400> 40508

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ggtgcccgcg ctgcacgtgg ggctcatccc attgaagaca ttgctaataa gggattgaag 120  
attgatggtg ggagcgtca gaagattgct ggacgtggac atgaaggac tacatgtcta 180  
gggccataga aagtatgcta ttattatgca cttttgcttg gcctatttgg ttctgta 237

<210> 40509  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E3

<400> 40509

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gaccccgact acgacccggc ccttgacatg gaacgcacgc agtcctcgac cgtaaggcta 120  
ttggacgaac agaaaagaat ggttggtgta gtatctgtca gcgaggcagt tcagattgca 180  
gacgataatg atcttatact ggcaatatta tcaatggatg gggaccccc agtacttcga 240  
ctctttgagg agagagatta caaaaaacat aggtgtgaac aacagaagaa gaaaaagatt 300  
cagcaggaaa agatctgtcg cgaaacgcac gggctttgga agagctgaat aaggggatac 360  
caacatttga caattcatga tta 383

<210> 40510  
<211> 276  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E4

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gctctgggat accattgctg gtggtgagtc agaggatgac caagaagggtg ttagaaccgt 180  
agatgatgat aatttcattg atgacactgg agttgatcca gctgatcggt atggcagcga 240  
taatgttcta cattcacctg gacgttatgc acatgc 276

<210> 40511  
<211> 143  
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<223> Clone ID: LIB3075-042-Q1-K1-E5

<400> 40511

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gcacacaatc cagtgtaccc tag 143

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E7

<400> 40512

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tctcttgcatt tcggggtcgg ttcttgcgaa acctaacttg accgcaggca tggagcactg 180  
ctatgtggga cagccgatct ccaaggccga tgctatgccc taaa 224

<210> 40513  
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<223> Clone ID: LIB3075-042-Q1-K1-E8

<400> 40513

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ttctctcttt gatggcattg aggagggtgg aatccaagca acatgctatt cttgtcatga 180  
gatagatgag caagaaaatg atggagctat tgatggactg caggatcgtg tcagcattct 240  
caagcgggtg tcaggcgata tccatgaaga ggtggagact cataacagaa tgctggaccg 300  
aatggtgaac gatatggata ctttaagggg ttttttgtct gggaccgggg acaaatttaa 360  
gattggtttt gggaccaaata caagccggag ggtgggaacc cttcgtgaat tatttattga 420  
cctttttttt 429

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<213> Zea mays  
 <223> Clone ID: LIB3075-042-Q1-K1-D6  
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 tgctcgctcg ggtaaataca gggatgttca aagtgtttaa atagcacttg gttacatgaa 120  
 acagaagggt atggtacctg gtgttattct ttacaatgaa 160

<210> 40515  
 <211> 143  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F11  
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<210> 40516  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F2  
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 cttagaccga gtgatggcgt cgctcccag gcagacgggc aagtggtag aacgtccccg 180  
 aagcgggcga gcggtggcag cgcaccctaa gcgtggaggc gacggcggtt gcgtgaggtg 240  
 aggtaagctt cggcagcaga tgtggcggcc acaagagacg cgggtggctc caggagtcgc 300  
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<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B7

<400> 40517

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caccgccccca caggtagcgg aggcaaagaa gaagagagcg gcggagagcg gcgaggcggc 180

ggaggcgaag aagatccagg acgacttctg ctcgacgctg tgcgagggca agaaggggac 240

ggacctggtc gtgtgcaagg agtcctgcgc gctctcccag cagtccaacc tgggtgctgta 300

cggcaagatc caatgcgagg gcaagtgcac cga 333

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<212> DNA

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ggaaaatgaa ggagatctga taatggctgc cttcttgggt accccagagg ctatggcttt 180

tatagtaagg catgggacag gaattgtttg tgtcagcatg aaagaagatg atctggaaag 240

actgagcctt cctttgatgg ttaccacaaa agaaaatgag gagaagctat gcactgcttt 300

cactgttaca gtggatg 317

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<211> 428

<212> DNA

<213> Zea mays

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tgggcacggt ggtcgtaaag ggctgaagaa gcaaaacacc gctgagacca ctaatgattt 180  
 cagaagcttt aaccaggggg gtgggtctca aaacaagaag agaaagaggt tttgaacttt 240  
 tgatggatat agtaagaatt tgggtgagtc tcaaaaccag atgaggaaga agttttgaac 300  
 ctttgctgtt attactatcc cgggtgtggc attattttgt tatgggtgtg gccagaaatga 360  
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 <211> 203  
 <212> DNA  
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<223> Clone ID: LIB3075-042-Q1-K1-C11

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<210> 40521  
 <211> 158  
 <212> DNA  
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<223> Clone ID: LIB3075-042-Q1-K1-C2

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<210> 40522  
 <211> 94  
 <212> DNA  
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<223> Clone ID: LIB3075-042-Q1-K1-C3

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<210> 40523  
 <211> 328  
 <212> DNA  
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<223> Clone ID: LIB3075-042-Q1-K1-C4

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 gttcaatgca ccgccagggg caagtaccag gtcttatacc ttaaaatgaa tgatgactac 180  
 cacatggacc ttgctgagtt caaaactagt gcaaagagga aagatacttt ttacagcacc 240  
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<210> 40524  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C5

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 gtgcaggcgc accatgggct tcggtcacat gacacaccgg cgggctggcc ggcaagttct 180  
 acgtggtgat tgacccacgc gacgacgccg ccgacctcgt cccccccagg aagggcacgc 240  
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<210> 40525  
 <211> 216  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3075-042-Q1-K1-C7

<400> 40525

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ccgcgtgcaa caacaggggt aagaactcgt ccccttctctc tccggcggcg aggttacgat 180  
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<210> 40526

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C8

<400> 40526

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ccggcggcgc cgagtccaag gtcttctacc tcaagatgaa tgggtgactac cacacgtacc 180  
ttgctgagtt caagtctggt gcaaagagga aggatgctgc ggaaagcacc atgaatgcct 240  
acaaagctgg taaggacatt gctcttgcaa atctgcttcc aaccaacca ataaggctgg 300  
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<210> 40527

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D10

<400> 40527

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ttgtctcgta ttctagcgc aggcggggaa cactcccggc ctccgcccga gcggagcgga 120  
gcgtttcgtc cgcgccgtg actccgagga gttcattttg ccgcgctgtc tccctgaatc 180  
ctacacgtcc ttctcgcgtt tggctcgact ggcgcgttga ttcttcttc ttctgttggt 240  
gatgtgcaga tctcccatc tctttttaca agaact 276

<210> 40528  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D11

<400> 40528

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 gttgtgcacc accccctca cgttcaggt cggcaaggga tccaagctg gccacctgat 120  
 cctcaccccc aatggttgcca ccatatccga cgtggagatc aaagagcacg gtggcgatga 180  
 cttctccttt acgctcaagg agggcccgac tggcacctgg acgctcgaca ccaaggcccc 240  
 gctcaagtac cccctttgca tccgctttgc tgtcaagtcc ggcggtacc gcatcgccga 300  
 cgacgtcatc cctgccgatt tcaaggccga caccacctat tagaccacac tcagcatcta 360  
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<210> 40529  
 <211> 199  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B4

<400> 40529

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 ccagataccg ggccagtcac cgacttttca ccccttttt ccaccgtcga agagctgagg 180  
 cctttccctc catcattca 199

<210> 40530  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D12

<400> 40530

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ccggaagcaa gcggcgacct caccagctcc gagcagcagc agggaggctc gtggaaccat 120  
tagtcgtttt ctggcagcgg catggagggg ctgagctgga gaacggtgtg ttgtttatcg 180  
gtgctctgtg ccgtgctggt cttgcgcccc gccgagggca tccgcttcgt gatcgatagg 240  
gaagagtgtc tctcgcataa cgtggaatac gagggggata ctgtccatgt atccttcgtc 300  
gtcatcaagg ctgacacccc gtggcattac agcgaggagg gcgtcgatct ttgggttaag 360  
gacctaatag ggcgctaagt ccgtgattcc cgagataaga ctagtgaca 409

<210> 40531  
<211> 229  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D4

<400> 40531  
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tgagaacctt ggggctcctg gtggtcttct gcacgtgca tcgcgagAAC gaagagtcaa 120  
acggcatcga tgcgaaagcg tacgggcctg ctgggtactt ctacatcacc tcgttgggca 180  
ccttcggcac tggcaagaca cacagtacga acgtgaaca tgaggtatg 229

<210> 40532  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D5

<400> 40532  
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agaagcaatt ggagcagttg agatggcaaa aaatgcattt acacacgaga cctattccaa 120  
gcaccaggct gagaatgcta aggctgtgga tgccctttta tcaacaggca aaagttgcag 180  
gcggtactcg aaacatgaaa tagagctcgc cactgattac ttttctgatg caaagaagat 240  
tggtgagggt ggctatggga atgtatacag gtgtaccctt gaccacaccg aagtagctgg 300  
taaagttggt gaacaaagat tcga 324

<210> 40533

<211> 174  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-041-Q1-K1-H2  
  
 <400> 40533  
  
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 tgagcatcgc aacgatggtc cgtctgacct gcgagcatga tgccctgggaa ggttcttggg 120  
 gctgccatag gtggagctac cctttcagat agttaatttt atgttcaaga gctc 174

<210> 40534  
 <211> 232  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-041-Q1-K1-H4  
  
 <400> 40534  
  
 cactaaccag gtcattggcg caacttgaac tgtggaagga gaagagctct ggcacgtatg 60  
 agaagaaggt gtatgtgctc cccaagcacc ttgatgagaa ggttgctgct cttcacttgg 120  
 gcaagcttgg tgccaagctg accaagctca ccaagtctca tgccgactac atcagcgtgc 180  
 cgatcgaggg ttccctacaag cctgtccact accggtacta ggcacacggc tt 232

<210> 40535  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-041-Q1-K1-H5  
  
 <400> 40535  
  
 gacagacagc acgaaagctg tgcaggaggc atgggcatcg gcgtgcggcg gcactgggaa 60  
 gcagacaatc ctcatacca aggttgactt ccttgctgga caactcaact tcacaggccc 120  
 ttgcaagggc gacgtgacca tccaggtgga tggcaatctg ctggcgacca cggacctaa 180  
 ccagtacaag gaccatggta attggatcga gattctacgt gtggataacc tggatcac 240  
 cggcaaggga aaccttgacg ggcaggggcc agccgtgtgg agcaagaact cctgcaccaa 300  
 gaagtacgac tgcaagatcc ttcccaactc gctggtgatg gac 343

<210> 40536  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-041-Q1-K1-H6

<400> 40536

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 gcacctcaac cggagtcgaa ggcgccattga tgaactccga gcctgccgctc gccgcagcta 120  
 gcgatgcaca agcttcttcc acgccgccgc tncctncttg acgcagncgg cgnccgctggc 180  
 cccctgctgc tcttctttcc acgcatgccc acgctgcgcc tgtctggtag gccgttcgta 240  
 gccatgcgtn ctggcgga aa ccctagccgt atccgtgcgc cgccgtggct gcactgtgac 300  
 gctgggtgga ggccgngact ctgttccgcc gaggctgcga ggccgctggg cgatacagag 360  
 gagatggaga aggatggcgg gg 382

<210> 40537  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H8

<400> 40537

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 tccaggccga ggccgcgctc cgggacgcca agcgcgggc catccgcaac tacctgggcc 120  
 ggccctggcg cgagtgtcgc cgcaccgtcg tcatggagtc ggagctcccg gacttcacgc 180  
 acaaggccgg gtacctgccc tggaacggcg acttcgggct caagacgctg tggtagcccg 240  
 agttcgcaa caccggggcc ggccgagca cggcggggcg cgtcagctgg ccgggcttca 300  
 agaagtgat cagcaaggcg gacgcgacca agttcacggt cgagaacttt ctgcacgctc 360  
 agccctggat cgatcccaca ggcacgccgg gtcaagtacg acctgttcac atgagcggcc 420  
 ggggatcgga ccggaggatg catc 444

<210> 40538  
 <211> 394

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H9

<400> 40538

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actccttcga ccgatacatc tccgccggca gcatcgagta ctggccagac ccacagcggg    120
ggatcaagga agcctacagg gtcctgagat ttggtgggct agcttgctg atcgggcccgg    180
tctacccgac cttctggctg tcccgtttct tcgccgacat gtggatgctc tttcccaagg    240
aggaagagta catcgagtgg ttcaagaagg ctgggttttag ggatgtcaag ctgaagagga    300
ttggaccgaa gtggtaccgc ggtgtccgaa ggcattggcct tatcatgggc tgctccgtca    360
caggcgtaa gagagagcgc ggggactttc cctt                                     394
  
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<210> 40539  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A1

<400> 40539

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agcttgccaa atatgtttca tgacaatgta aatgtggagt ctgctcttgg tccagcactt    60
aaatcagctt tcatggttat gagtcaaatt ggggggaagt tgcttgtctt ccagagtact    120
ttgccatctc ttggtattgg tcgtttgagg ctacgaggag acgatgtccg tgcatatgga    180
acggataagg agcatactct gagggtagca gaagattcct tctacaaaca gatggctgct    240
gaattcacia aatatcagat tgcagtggac atattttctt tcaacgataa agtactcaaa    300
tataagcatc tttaacgatac ttt                                     323
  
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<210> 40540  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A12

<400> 40540

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atcggccgta gagcgagcag tatcccaagt ccaccagtc tctaatacaca ttactctcga    60
  
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acgacagggt ccttgcacca ctatatccag gaccgacgaa gtgatccagc cgacagtcac 120  
ggagacgaag aaggtgctat gggcactgct agtaccagcc gtctcgggtca cagtcgcgct 180  
gagctggctc gcctacgagg caccatccga ggcgctcacc gtctcgggcc gcggtgcggc 240  
tggctcctag cgatagcgga gcgggctgca acgtcgtgct atccaccaga gcacttacaa 300  
cttcatcact aactgctacg tggatatgac gaaggctctc ta 342

<210> 40541  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A2

<400> 40541

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aaggttgctg ctctccactt gggcaagctt ggtgccaaagc tgaccaagct caccaagtct 120  
caggccgact acatcagcgt gccgatcgag ggteccctaca agcctgcccc ctaccggtac 180  
taggcacacg gcttgcaact cactcgggcc gttgtgtgct atgaagttcg ctacactggc 240  
ctgtcagata tcttttgcac gcatatgcat tatcatatac gcaggcgcgt agcacgtttt 300  
cttatgggta tcgcttgaac tgagggggg 329

<210> 40542  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A3

<400> 40542

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ttatggccgt gaccataagg gaaaagggtt ccacacaatc caaccccact atgacttctt 120  
ggggcgccat ttggaggaag gacagcaaca aaccgtttta gggacccttc accgtccgcc 180  
tactaccga gggaggcacc aatgcccgcc tacgacgatg tcatccctgc caactggaaa 240  
gccaacaccg tctacaccga caaataaata actttattgc tgacaatact ttaagccgac 300  
ctatgctaac tatactagat tgggttggat cccaaaccat gcattacaca tgcattgca 358

<210> 40543  
<211> 308  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A4

<400> 40543

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ctgcatcgtg catggtgaga aggaagagtc aaagggcatc gatgcgaaag cgtccggggc 120  
tgggtgggtcc ttcgacatca ccaagttggg cgctccggc aatggcaaga cagacagcac 180  
gaatgctgtg caggaggcat gggcatcggc atgcgggcggc actgggaagc agacaatcct 240  
catacccaag ggtgacttcc ttgtcggaca actcaacttc acaggccctt gcaagggcga 300  
cgtgacca 308

<210> 40544  
<211> 186  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A6

<400> 40544

ttcacgcgtc caccacgcg ttcgggcact cgtaaaaaa catgcttgca taactcctcc 60  
agtacgatcc tatggagatt atcacaggtg gagttgtcat acacgaagcc tatctatcta 120  
ataatcccct gatccaaaag tgacctttat gacatgcata tggacgggca tatatattta 180  
tataaa 186

<210> 40545  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A7

<400> 40545

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caagagatgg gacactaggg agaggaagac ggctctccag aacctggaac agttccagga 120



caaggcaaaag aaggaaaggc tgcggatttg gcagtacgga gatggtgaat cggacgagga 180  
cgagcaggcc ccgcctgcaa ggaagcctgg aggtcgtcgg tagagactgg gcagcgtaag 240  
gctgcagtct ggcattgctat gaaagttttg gacaaccaca aatggtggac tctgccggga 300  
gttatagatg aagacttact gaggggtacc ggatttatat tcggctagaa gaagggaact 360  
taacgaggcg aaatcacttt tgatat 386

<210> 40546  
<211> 199  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A8

<400> 40546

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ttgatggtat atatatagag gaagcatgtc tatctaataa gtccctcatc caaaattgat 120  
ctttatgtca tgtatatgta cgtgcatata tatatatata aaaatacgtc tccttttatt 180  
aaaacaaaaa acccaagaa 199

<210> 40547  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A9

<400> 40547

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cggcctccct ctccgtcctc tagcgaccga ccaacgcgcc gagcgaagat gtcgtggcag 120  
acgtacgtgg acgagcacct gatgtgcgag atcgagggcc accacctcac gtcggcggcc 180  
atcgtcggcc acgacggcgc cacctgggct cagagcaccg cgttccccga gttcaagccc 240  
gaggagatgg ctgccatcat gaaggatttc gacgagccgg tgcacctcgc cccgaccggc 300  
ctgatcctgg gaggcaccaa gtacatggtc atccaaggcg aacctggagc tgtcatccgt 360  
ggcaagaagg gatccggggg catcactgtg aagaaaacag ggcagtcact catcattg 418

<210> 40548  
<211> 134  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H12

<400> 40548

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acgaactccg tgttgcgcct gaagagcacc ctgtgctgct gaccaagcc cactcaacc 120  
caaaggctta caag 134

<210> 40549  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B10

<400> 40549

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gcaccggccc tccctcccgc tcgcccagac ggggcagcgg cggcggcccc ggcacccgc 120  
gcgcggggtc ggacggggag aggggcgggg gtctgtggcg tggcggcggc gctgccgtcg 180  
gacgcgcagt ggctggagcg gctgccggag aagaagaagc ctctggacac gcacagcctg 240  
ccgtgcatcg aggcgtggct gcgcagcctc gggttcacgc agtccctcga ggaccccgtc 300  
gtctgggtcg tcgagaagcc g 321

<210> 40550  
<211> 258  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B2

<400> 40550

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gaccctgttc gttttcgtct gatctagcac tagaagtagc ggtgatgggg tgtgtgtggt 120  
tgtgtacatg ttcttgagg ccgttgtgat ctgcgtgtgc tattatcact tattcttttg 180  
gtccatatac ggaccacat actggattgt tcgtatgtat aaccacggtg gagaggcgcc 240

tgttatatta ataaacac

258

<210> 40551  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B3

<400> 40551

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gtggacgagc acctgatgtg cgagatcgag ggccaccacc tcacgtcggc gggcatcgtc 180  
ggccaacgacg gcgccacctg ggctcagagc accgcgttcc ccgagttcaa gcccaggagag 240  
atgggtgtca tcatgaagga tttcgacgag cgggggcacc 280

<210> 40552  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F12

<400> 40552

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catcgagtct gacagaagat ggaagcacat tattacctct accagtacca gtaccactaa 120  
gcaatgatat tgtaattatc ccaaagatag tgagaaattt tgatcaagaa gagaaacaga 180  
tccaggattt gaaaagtaac atgtccactg ttaagtcttt catggagcag ttaaaaactgc 240  
tgtactctga agaccttaaa aagcttggtg atcatttgcg tattatttct catgcgggctt 300  
ctgggtaccg caaggttggt gagggaaaacc gcaagcctta caa 343

<210> 40553  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F3

<400> 40553

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 agaacggcct caagaaggtc atcgagtacc gtttcgacga cgacggcaac aaggtccggg 180  
 tcacgaccac catccgcgtt ctgaaactcg ctcgggcgcg cctttcccg c agcgcattg 240  
 agcgcgccca gtggcctaag tttggggacg tccctctatgg aggactctgg ttttcatgtt 300  
 ttactatggg tttttacttg atgagtattc ttttttgt 338

<210> 40554  
 <211> 179  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F4

<400> 40554

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 ttcacgtcgt cagccgtgcc gatgctgatg taatggggcg ggaaagggaa accaacgtcc 120  
 acttaattag cttcttttgt tacacaggac aggacaggac acaaaaacac cctcttttt 179

<210> 40555  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F5

<400> 40555

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 gatctggagg gcgaaccctc gcggctgctg cgacatgacc ggcaaggagg ccccaggggg 120  
 ccggatcgtg atggagctgt acaccaacga ggagcccaag accgaggaga actttcggcg 180  
 ctgtgcactg acgagaaggg cgtgggcaaa ttccagaagg cgattcacta caagggtac 240  
 acctt 245

<210> 40556  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F7

<400> 40556

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ctcgctgggtg atggacttcg tgaacaacgg ggaggtgtcc ggggtcacgc tgctcaactc 180  
caagttcttc cacatgaaca tgtaccgggtg caaggacatg ctgatcaagg acgtgaccgt 240  
gacggcgccc ggggacagcc ccaacacgga tggcatccac atgggcgact catccgggat 300  
caccatcacc aacaccgtca 320

<210> 40557

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F8

<400> 40557

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ggtagtcagc acgttcaatg gacccgggat tgggatcggg ttcggtgtcg gctgcgggtt 120  
cggcgtcggg tgggggttcg gaggaatgcc tcttaacatg ttcggcttgg gtatcgggtg 180  
gggttgtgga tttggtcttg gactaggatg gggttttggg aatgcttttg gttgtcagta 240  
tcgatcttca agagttcagt tccaaggcat tgaatttcag aagaaggcgg aaggagatga 300  
tgccccaaaa gttgtttcac cggagcttgc tcaaa 335

<210> 40558

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F9

<400> 40558

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gccatcagtt tccaccgcac gtccggaccc cctctccggc gtgccgacgg tatccatggc 120  
ggcgggtgggtg cgcggcgctc tgaggggcat caaggagaag ggactcacca acttcatccg 180

cgacgtccgc aacgaaggat acttcaaagg ccttctggac gggaaccttt ggcaaacgaa 240  
aatccacaat attggcgcac acttggtagg agtggccaag tttgggacca aatTTTTTgg 300  
gaacctcctt g 311

<210> 40559  
<211> 346  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-041-Q1-K1-G10  
<400> 40559

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tagatcataa cattcatcgg tggggcgtat cactttatgg gcgggatcca gccttgtcaa 120  
cactacgacc acctggaata catggtgctg gcccgctact tacacagata acccaaacca 180  
tgcaaataccc acttacctat gctgaagaca ttataggagt taaaggagca aatattgcgt 240  
acatacgagc taatagtggg gctgttgta caattcanga gagtttgggt agtccagatg 300  
atattactgt tgaaataaag gggacatctt cacaggtaca agctgc 346

<210> 40560  
<211> 305  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-041-Q1-K1-G11  
<400> 40560

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aaacatgtct gaccgggcaa agatgtcgtg gcaggcgtac gtggacgagc acctgatgtg 120  
cgagatcgag ggccaccacc tcgcggcggc ggccatcgtc ggccacgacg gtgccgcctg 180  
ggcgcagagc acggcggttc ccgagttcaa gaccgaggac atggccaaca tcatgaagga 240  
cttcgacgag ccagggcacc tcgcgccgac aggcctgttc ctccggaccta ccaagtacat 300  
ggtca 305

<210> 40561

<211> 341  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-041-Q1-K1-G12  
  
 <400> 40561  
  
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 ttgatggcca cccaagtaca ttgaaaagag taaaatcaga tggcactatt cttcatgaaa 120  
 ggaaagcttc tataatctggc tctggtcggt gccataatga accgataagt gcatcgcagc 180  
 ctgatgtaca aaatgggttt caattcccaa cttcagaatc cgattcactt catgaaaatg 240  
 aaatttcatc acctttggga agtggagtag cacacctaac gtatactccc acaagctctg 300  
 acgtgcttca tgtgccaaga gctaaagtta atattgcatg a 341

<210> 40562  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-041-Q1-K1-G2  
  
 <400> 40562  
  
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 ggatctcttg gtcggagaac ctgcgaggaa ggactaagga gtcgaagatg actgcgggcg 120  
 tgctgtccgt gcgcacgacg acgacgtcgc tgctagcagc agtcattcctg tgctctgca 180  
 tcgtctccct ctccccccgc ggcgccgctg ccgcgcgggt ctccccccgc gccagcccga 240  
 tcgtggccac ctgcatgacg ggcccgtacc cggagctgtg cgtgggggag ctgggacagc 300  
 ggctgctgga cgtgcagacg tcgatcgcgt ncgcggcgcc cgaccagcgc gcggccagga 360  
 tc 362

<210> 40563  
 <211> 143  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-041-Q1-K1-G3

<400> 40563  
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 cgagtctccc ggtttgaaga ccctgcgggg ggggcctttt gattcgaaga tgaccgcggc 120  
 ggtgctgccc ggcgccgata cga 143

<210> 40564  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G4

<400> 40564  
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 cgacgtcgag ctgctcgccg tgaacgaccc cttcatcagc accgattaca tgacctacat 120  
 gttcaagtat gacactgtgc acggacagtg gaagcaccat gaggtcaagg tgaaggactc 180  
 caagaccctt ctctttggtg agaaggaggt tgctgtgttt ggctgcagga accctgagga 240  
 gatcccatgg ggttcctgtg gcgctgaata tgttggtgag tctactggtg ttttactga 300  
 cca 303

<210> 40565  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-041-Q1-K1-G5

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 ccgccgtgcg ggccattacc gacgcgcgcg gcgggcccgg atacctccag gaggcgtgca 180  
 acaagacgct gttccccaag gtgtgcatgc acgcgctcaa ggacaacca nagtgccagg 240  
 cggagacggc ggtcaccctc gcgccgctgg ccgagctgct cgtgtacgtg tcggccgagg 300  
 tgggcatgac cgtggccgcg ttcgcgcacc acgagctcaa cg 342



<210> 40566  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-041-Q1-K1-G6

<400> 40566

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 catttgctgt gggatttgct tcacgtttta tggagaagcc tactaccgag catctgcttg 120  
 ctgtgaagcg agtgctgcgg tacgtancat gtacttcgga ctatggctgc tactatcaga 180  
 gaaggaagaa accagcaggg ttgaccgggt acagtgcag agaccatgcg ggtgatgttg 240  
 atactcgcaa gagcacgaca agagtgggtct tcttccttgt gggcagcttc attactttgc 300  
 aatcaca 307

<210> 40567  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G7

<400> 40567

ggccgcccgc gctgtgggcg gcgccctggc catctcggag ctgatgccgg cgcagtataa 60  
 gcacacgctc gcggggccct cactcaagggt ggatccccac accggtgccc tagccgaagg 120  
 ggtgctcacc ttcgatcatca ccctgaccgt gctctgggtc atcgtcaagg gccccgcaa 180  
 cgtcatcctc a 191

<210> 40568  
 <211> 345  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G8

<400> 40568

gcctcatgcg cgactcccc acgcacatcg gcttcgcgac cagggccgac ggcgacggca 60  
 tctccctctt ctccgccacc aacgtctgga tcgaccacat ctccatgtcc aactgcgagg 120

acggcctcat cgacgtcgtg cagagctcca cggggatcac catctccaac tgccacttca 180  
ccaaccacaa cgacgtcatg ctcttcggcg ccagegactc ctggccgcag gaccagatca 240  
tgcagatcac cgtcgccttc aaccacttcg gcaggggcct ggtgcagcgg atgccaaggt 300  
gccgctgggg cttctttcac gttgtcaaca acgactacac gcact 345

<210> 40569

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H1

<400> 40569

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aggccgacgc cgacgacccc tctcgccgcc ggccggccatg gcgtacggcg accgcgtcac 120  
caccttcgag gactccgaga aggagagcga gtacggctat gtccgcaagg tctctggacc 180  
tgtggttgtg gctgatggaa tgggtggtgc tgccatgtat gaacttggtc gtgtcggaca 240  
tgataacctc attggggaaa ttatccgtct tgagggcgat tcagctacaa tccaagttaa 300  
tgaggaaacc gctggactga tggttaatga cctgtattg agaacaagaa agcctctttc 360  
agttgaatgg ggacctggaa ttcttggaac atttttgacg 400

<210> 40570

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-F11

<400> 40570

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ggccaccacc tcgcggcggc ggccatcgtc ggccacgacg gtgccgcctg ggccgagagc 120  
acggcgttcc ccgagttcaa gaccgaggac atggccaaca tcatgaagga cttcgacgag 180  
ccagggcacc tcgcgccgac aggcctgttc ctcggaccta ccaagtacat ggtcatccaa 240  
ggcgagcctg gtgccgtcat ccgtggcaag aagggatcag gaggcatcac cgtgaagaag 300  
acagggcagg cactcgtcgt tggcatctac gacgagccga tgacgcctgg gcagtgaac 360

atggtggtgg aaaggctggg cgactacctt gcttgacagg gcatgntact actacgtacc 420  
agcttgaatg catgtcgacg ac 442

<210> 40571  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-041-Q1-K1-H10  
  
<400> 40571

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agattggtag ggagcccaga gggatgatggg aatggcgaag gagcagcact tctgtcttgt 120  
tcatggcgaa aggcattggg cctggtgctg gttcaagctc cgctggctcc tcgagggcgc 180  
tggccaccgt gtcacgtgcg ttgacctggc cggaggcggc gtcgaccta cgcaccccaa 240  
caccatccgg tccttcaagc agtacgacaa gcctgtcata gacctcatct tcaacttgcc 300  
agacggagag aagggtgattc tgatcggaca tggcgcttgg aggtggaatg tgaaccatgc 360  
aatgcatgga tttgttgaca ggatctgtca agcatttttt cgtg 404

<210> 40572  
<211> 225  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-041-Q1-K1-D2  
  
<400> 40572

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tctgcatcag cgtcgattatc atgcaggctg gtggaatgcc acagcgggac aggagcatgg 120  
ggatgagcag gcgcaagatg actgcaagtg gcgccggatc ccgacattcg gcgactggaa 180  
cctgcggggac gacatgcccc ttaccttaata cttgcaagca gggac 225

<210> 40573  
<211> 439  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-D3

<400> 40573

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cttcggctcc cgtcgtcccc ttccttgaga tctctaggat acgagcgcac tcgcatcgct 120  
tcgcctccgc cgcgccctgg ggagatggcg ggtttgggaa aggcgatgta cgcggtggga 180  
ttctggatcc gggagaccgg tcaggccctc gatcgccctg gctgccgcct gcagggcaag 240  
tacttcttcc acgagcagat ttcaaggcat cgcaccatca tgaatatctt tgacaaatcc 300  
cttattggtg atgttcaagt cgggcaagga gcttccattt ggtatgggtg cgtcttaaga 360  
ggggacgcan acaacataca aattggatct gggaccaata tacaagacaa ttctcttgtg 420  
catgtggcta aatctaatac 439

<210> 40574

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D4

<400> 40574

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acgcggttg agcaagagct cctgtagcac taattacgac tgccacattc ttcttaactt 120  
gctgttgatg gacttcgcca acacaggtga ggtgtgcggg gggacactcc tcaactgcaa 180  
ggatgccaca tgaacacata ccggagcgcg gacatgcttg tcaaggacgt gaccgctacc 240  
gcgcccgggg acagcc 256

<210> 40575

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-D5

<400> 40575

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gcgcgatggc gccaccagg atccgcgtgg gcttgctgag cttggcgctc gtggggctgc 120

tcatttgcca ccttgccacc accgccttcg tcggcaagaa cagaatccgc atcctcgaca 180  
 gcgtcgacga ctcggccggg gacaacaaca gctccgacgc ctcgggcggg gacaacagca 240  
 ccgactccga gtcggaaggc cgcgtcgtct attccgacat gaagctggct gatgagacgg 300  
 gatctgcgcc ggctccggca ccggcgccgg ngccgacgac cagttgaagc gaggaaggtg 360  
 gccaaaactg atggcccggc tactatcttt t 391

<210> 40576  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D8

<400> 40576

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 agcgagggcc accgatccgg tacggtggcg cctcgcatca agagatgcga gatggggcgt 120  
 caagtcgaaa ccagttctaa tgataggatc agtgtatctc tgaagatacg gtatgggtta 180  
 ccctaccgta tttgtaaagt aatgatgccg gccgaacgac ctttcctaac gcgtttgggc 240  
 agaaattcgt tgctgtc 257

<210> 40577  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D9

<400> 40577

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 aagtcccccc aggcaagaac atcacggcca cctatggcaa ggactgggtg gacgctaaag 180  
 cgacatggta tggcaagccg acgggtgccg gtcccgacga caacggtggc ggctgcgggt 240  
 acaaggacgt gaacaagccc cccttcaata gcatgggcgc atgcggcaac atccccatct 300  
 tcaaggatgg tctgggttgt gggctctgct tcgagatcaa gtgcgataag cctgtggagt 360  
 gcttccgcaa gcccggtggtg gtgcacatta cggacatgaa c 401

<210> 40578  
 <211> 205  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-041-Q1-K1-E10  
  
 <400> 40578  
  
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 ctagecctgtg taggtttgtg ctggtacatt gagagctctt atttatttgc tttgattgca 120  
 attaaccagg atgaccatag ccctttgttt tggttttgct tgttttttat aaagtttgca 180  
 ttgaaacaac cacttctgtt tgggt 205

<210> 40579  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-041-Q1-K1-E12  
  
 <400> 40579  
  
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 tccgtgcgca cgacgacgac gtcgctgcta gcagcagtca tcctgtgcct ctgcatcgtc 180  
 tccctatccc cccgcggcgc cgttgccgtg cgggtctccc ccggcgccag cccgatcgtg 240  
 gccacctgca tgacggggccc gtacccggag ctgtgcgtgg gggagctggg acagcggctg 300  
 ctggacgtgc agacgtccat cgcg 324

<210> 40580  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-041-Q1-K1-E3  
  
 <400> 40580  
  
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 cccacccttt agcaaagaga aaacgatgtg catgaagagc tgctgcaaca agtgcttcca 120

ccacggcccc ccagcgctg gtcctggccc gaagccgagg ccgccaatgc ctggtcctcc 180  
gaagccgcct gccccgaagc cgaagccgag gccgccagcg ccaaagccac cgacgccccaa 240  
ggcgccgcca ccgccaaaga aagccgtgtc cctgcccccc gggcagcgac gaggccaagg 300  
ccgacagcaa aaactgattc atacgatggg atggatcggc cagtcatcat cagaagcact 360  
catattagta tatacacatc gtaagtacgc gtgtacgtgt aacgtacgta ctc 413

<210> 40581  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E4

<400> 40581

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ccggctcccg tgcgcgtgct ctactgcggc gtctgcggcc tcccggccga gtactgcgag 120  
ttcgcccccg acttcgagcg ctgcaagccc tggctgcgcg cgcacgcgcc cggcgtctac 180  
cccgacgacc ttgtcgccgt ctctactaa cccggcgggc gcgacaagga cgtccacaag 240  
gtcggggatc gccttcaggg cgtcgggatc tccgacagct ccaccggcgc cgcaggggat 300  
gcttcgcgct ctaagcccca agaggcgaaa cgcctgcctg gtggtttagct caag 354

<210> 40582  
<211> 187  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E5

<400> 40582

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atgtatatat caaacaacaa actaaaagat ggggttaaagt aaaatttgat gcaatgccac 120  
ttgcatagta aagtaatcac ttacctggtt aaatctttca agggggtaac aagggtcaaa 180  
tatgttt 187

<210> 40583  
<211> 373

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-041-Q1-K1-E6  
  
 <400> 40583  
  
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 gttcaaggac accggcaccg ccaagatcat gctgcagctc gccgtccagg acttcgactc 180  
 gtggacccgc cccttcaccc aggcggcggt ccccaacccc atggggaagt ttgacaagga 240  
 gctcaaccag atggccaaca actgcatggc tcttgcanac atgatatgaa ccacgcatgc 300  
 aacctcaggc gtgagggtgc atcgcatgca gggaatgctt gcattcattt ttcatttaat 360  
 taagaattca ttg 373

<210> 40584  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-041-Q1-K1-E7  
  
 <400> 40584  
  
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 accctccacc tgggtgctcg tctcaggggt ggcatgcaga tctttgtgaa gacactcact 180  
 ggcaagacaa tcacccttga ggtggagtct tcggatacca ttgacaatgt caaggccaag 240  
 atccaagaca aggagggcat cccaccggac cagcagcgcc tcatcttcgc cggcaagcag 300  
 ctggaggatg gccgcaccct ggccgactac aacatccaga aggagagcac cctncacctg 360  
 gtgctccgcc taggggtggc atgcagattt ttgtgaagac attgactggc aagaccatca 420  
 ccttgagggt ggagagctct gacaccattg ac 452

<210> 40585  
 <211> 454  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3075-041-Q1-K1-E8

<400> 40585

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aaggatgagt tattcggatc ttgagagtgc ttctgattca gaaggtttta gtgaaattga 120  
taatagtaga gagtccagat atggtaatag taaagagtcc agatatgata atggtagaga 180  
gtccagaaat gataataata gagagtccaa atatgcagcc aaggttgagg atgaatttga 240  
ggatcatcat tccctgagat cgactcatct tgctgattcc tggcaaaaaa ccagaggtcg 300  
gagtggttcg aatgactaca gaagggcatc ttttggatca gagagtgatg atgagatcaa 360  
ttcttatccg gacgaggaca ttgacaaagg tcctagaaat aatggaagcc gtagtcaggg 420  
aagtaccaac agagcttttg tangcacaat gcac 454

<210> 40586  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E9

<400> 40586

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accttcattc aacgacatca tccttccacc tatcatggcc aacaaatag catctccgcc 120  
tcctcctcta ttccaaggat attaagctct atggagagat ggtcgaccaa gaatgaattg 180  
aacaacaata tataaggctc catgcgcaac caaacagcta catgtacatt gcaggcgtgt 240  
gtgaaattgt ttatttatct tttgcat 267

<210> 40587  
<211> 286  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F1

<400> 40587

aaagcatcga tcacgacaag atggcgtgca caaacaatgc gatgagagcc ttgttctctc 60

tggctcctcgt ctgcatcgtg catggtgaga aggaagagtc aaagggcatc gatgctaaag 120  
 cgtccggggcc tgggtgggtac ttcgacatca ccaagtaggg cgcctgcggc actctcatga 180  
 catacaactt ctttgctatg aacatgtccc ggtccacggg catgctgttc aatgacgtga 240  
 cctttactgt tctttgcgac agtcccatca cggttggttt cacatg 286

<210> 40588  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-041-Q1-K1-F10

<400> 40588

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 tagcggcgag gcggcggagg cgaanaagat ccaggacgac ttctgctcga cgctgtgcga 180  
 gggcaagaag gggacggacc tggtcgtgtg caaggagtcc tgcgctctct cccagcagtc 240  
 caacctggtg ctgttcggca ggatccagtg caagggcaag tgcaccgag 289

<210> 40589  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D12

<400> 40589

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 tccaactata taagctattt atgtcctgat gaagtttatt actgacattt gactgaacca 180  
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 tgggtgcata tttgctgaac ttctcactgg aaggccacta ttttctggga agaagtgtgt 240  
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 <213> Zea mays  
  
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 aacgacaacc gcgcgcgagc tccaccttca ccaccatccc accggcatcg aggcattctc 180  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-041-Q1-K1-B8  
  
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ctgggtccaga gatctgggag gattcaaagg ggaagggtgga tatattcatt ggtggaattg 240  
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aggttattgg tattgagcct tctgaaagta acatactctc cgggtggaaaa cctgggtccac 360  
ataagatcca gggaatcggg gcaggatttg ttccaaggaa cttggatagc gatattcttg 420  
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<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B9

<400> 40593

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taggacctca gatgcttata tcctaacaag agctgaacag tctgcaagc aacagaagat 180  
taagatatgg gagaactatg tcgaggggtga aaatgcttcc aatggatcca cacctgaatc 240  
taaacaaaag caaattctca aggttgttgt cacggaagtt cttggtggtg ggaagtttta 300  
tgttcagaca atgggtgacc agaggtgggc ttcaattcaa cagcagcttg catttttgaa 360  
acttaa 366

<210> 40594  
<211> 391  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-041-Q1-K1-C1

<400> 40594

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gtcctctgcg ccgccctcgt cgccgccgcc tcggccaccg ccgtgctggc ctcggtcgcc 180  
 tccgaggcgc cctccgagge gcccgccggc gcggaagggtg gtgcgggtgg ccctagcgca 240  
 agcggcgccg acgccgacgc cgtgcccgcc gccggggcgc tcgtcgccctc ctttctcgcc 300  
 tactacctnc actgagcgac gacgcgcggn gcggcaacgt tgggatgcat cgagtttggg 360  
 tcatacgatt aattaattgc tttttttatt t 391

<210> 40595  
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<223> unsure at all n locations  
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 ggatggactt ctgaattttt ggcggtatgg gtggtatggg tggcatgggt gatatggctg 180  
 gcttgggtgg tcttggtggc atgggtggaa tgggcggtat ggggtggtatg ggaatggatg 240  
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<210> 40596  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C12

<400> 40596

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 ctggaggatg gccgcacct tcgcgattac aacattcaga aggagagcac ccttcacctg 180  
 gtgctccgtc ttatgggtgg catgcacatc tttgtgaaga cactcactgg caagacaatc 240  
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<210> 40597  
 <211> 449

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gcgcattcgc atcgtctcgc ctccgccgcg gcctggggag atggcggggt tgggaaaggc 180  
 gatgtacgcg gtgggattct ggatccggga gaccggtcag gccctcgatc gcctcggctg 240  
 ccgcctgcag ggcaagtact tcttcacga gcagatttca aggcacgcga ccatcatgaa 300  
 tatctttgac aaatccccac atgttcata ggtatgattt gttgctccaa gtgcatccct 360  
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<210> 40598  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-041-Q1-K1-C3  
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 gcgctgctgg gcgtgcccat cgcgctcgtc ctctcatcc gctggatctc ctccgctcac 180  
 tccttcgagg gctacctggg cttctacccg agggagagcc gctggaaggg ccgctacgag 240  
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 gtgctcgcca gtttccactc caccatccac gacatgtggg ggccgtgaac ggccggatgt 360  
 gggctcctgct cctgttcgat tccacgcgcg cacgtatgcg attgtactgc tggttgctgc 420  
 ttgatcgatc gatggatcga tgattccatg tacatatt 458

<210> 40599  
 <211> 194  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C4

<400> 40599

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gccatagtcg gccacgacgg cgccgtttgg gcccaaagca ccgcatttcc acaagtcaag 180

acagaaggaa gatg 194

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C5

<400> 40600

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gctacgagca gaacctgctc gccttcttgc agaacaagat gaaccggac gccctgctcg 120

tgcagctcat cgaggagatg gacaagtga tctctggcta cttcttcttc cactggaaat 180

atgcgaccca cataatcacg caggttctga cgcacgagca gcctagaaga aagctcagaa 240

gaatggttat ggaggccact aggaagatga ggtttgagag ggtgacgaga gagctgaaag 300

ttaccaggct gttcaccacg ctggtggagg agtcaaggc catcgggtgtg cactgtcagc 360

acgaccacaa acgggcgggc acggacgt 388

<210> 40601

<211> 171

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-C6

<400> 40601

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acctcttggc tctctctctc ttttctttt gattaaaagt aagtgaatta ggcgaggggt 120

taattattta ttttgtcaaa acttatgtga gtcatgaaat gttgcctccn a 171

<210> 40602  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C7

<400> 40602

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 ctggctacgc tattctcgga cggctcatgc accacccctg tcaccttaca agccggcaag 180  
 gtctacaagc ctggccactt ggtccccacc cccaacgttg ccaccatcta tgacatgtag 240  
 atcaacgagc acggttgtga ctactt 266

<210> 40603  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C8

<400> 40603

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 atgttcaaag atttgtcagc tgtgaatgtg aaggcgactt cgctgaacct cttacacgat 180  
 gaccagaaa tgctaggtta cttgagcag accggtgatg ttgctcagga gggagacgtt 240  
 cttatctcac caatggagat tctggcatat aagttggacc tacaaccacc atcatcgag 300  
 gaagagtagt tttagtttgt gaaaacagta catgcatatt gaacagtcct acatgacagt 360  
 gaagatggat ctttccgaaa tacttga 387

<210> 40604  
 <211> 339  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C9

<400> 40604



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 ccgccttcgg cggcgacgac acgtacttct tcgccgaggc ccccgacgtg ccgtccatgg 180  
 tgctccccat ctgcgacgac tttgacggct tccaggcggc caccaaggat atggtgaaga 240  
 ataagaaggg gacgaccacg cttgccttca tcttcgacaa gggcgtcata gtcgccgctg 300  
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<210> 40605

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D1

<400> 40605

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 ctctcgaaa tggaccgtat cctcaggcct accggggttg ccatcgtagg ggacaagggc 180  
 actgtcatcg aattcatcaa gaagtacctc cacgcgctcc actgggaagc agtagcggct 240  
 gcagatgccg agcccagctc ggaatcagag gagaacgaga tgatcttggg gatccggaag 300  
 aagttgtggc taccagaagc aggctcgcac acgtgattcc cttcccggcg tctgcagctc 360  
 agaagcgagg cgccagctgc accagccatg atttatttct agccttaatg cacacatgga 420  
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<210> 40606

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D10

<400> 40606

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 cctcgtgata tacagggact actatggccg cctcgacgtg atcggcgatg tgggtgtcca 180

gtacaaggta cttcgcgtac gcattgatct gggcaagggc ct 222

<210> 40607  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D11

<400> 40607

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cctcaggatg aagttcgtcg ccgtcgccgc catggccgcc gcgctcgtgg cgttcgccgc 180  
agcgcgaggg tccgcccggg cccggctcgac gcgggctctt aagatcaact actacctgct 240  
cacgatactc ttatggacta atcatactgc gcgttcacgc ggatggaacc tgcgtccact 300  
atcgctgaga atcccttgca gt 322

<210> 40608  
<211> 364  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B4

<400> 40608

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gccgccgcct ccttcgtacg caccggcgac gacgaggacg acgacgcgcc cgccggcggg 180  
ccgtggtgcc tcgtcgtggg ctccaagatc caggccaggg tcgggcccga gctgcagctc 240  
aagaccttcc ccgcgcagcg ccgggtggat ttcgttgccg acggcgtatg ggcgcttaag 300  
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aaca 364

<210> 40609  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F10

<400> 40609

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ccgcgcggtg ctgcgcatcc tccagtgggtg gggattcaac gtcaccggca tcatcatcaa 180  
caagtggatc tttcagaaac tggagttcaa gttccccctg acggtgtcgt gcgtccactt 240  
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cgaggtggcc ttggaggacc ggggggggga gatattcccc atgtcgttgg tgttctgcgt 360  
gaacatcggg ctgggggaaac ggtagcc 387

<210> 40610

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F3

<400> 40610

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agggggagca gcagccggtg tgtgacgctg gtactgtacg gtctccgctt gctgcttctg 120  
gttgggggtg cgcaagcgga attggagttg gtgcctgctg atgaataata 170

<210> 40611

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F9

<400> 40611

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gcctggaaat gagaccttgc cagtcgctct gtacgacaag ttcgatgatg actacttoga 180  
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cgctgggccc ctgctggaca 260

<210> 40612  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A1

<400> 40612

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 atcaagaacg gagggcgcggt cgtggtcctc aacacccaga acctgccgct cgtcaaggag 180  
 gtcgggctcg gtgctgacct tgtcaggatc gacgcccact ccatgtgctc gcccggcttc 240  
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 gttgggatcg acggcacgcg agtgc 325

<210> 40613  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A10

<400> 40613

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 ccgcagctgc agccgcggcg caggcatcca ataacgtcac ctccgacgag gattactggg 180  
 cggagcgcgc cgaggtggct cggtcgcgca acctcgccgc ctacgtcagc gaccccgctg 240  
 ccgccacgaa ccgcttcaac gcggacgtgc tgagggccac gacgcggcgg gcgctggcga 300  
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 actgggcgac ggaccggaag cggctggcgc aatgcgcg 398

<210> 40614  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A11

<400> 40614

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cccgtcccg cgaagctcga caccgctgcc aacgggaacg ggaacccgcc gcccgctcggc 180

tccgtctgga atcaggctgg aacatgggag gaaaagaacc tcaactcatg ggccaatagt 240

agaataaagg atttgatggg ctcttttaggt tcattggcct tccctacagg gaaggcatct 300

attgacgaag tgtccaagtg ctcaagcgac gcatttcagg tcattgtccg caacaagaag 360

agagtaggat ataactatga actaagcttg agatttagcg gtgaatggtt aatcaaagaa 420

gtaaacaatga tgttcaaagg gcatttagac atttccgagg ttt 463

<210> 40615

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A12

<400> 40615

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caagtggcag cccaaggacc agatcggcag cttctttctac ttcccgtcca tcggcatgca 180

gcgggcggcg ggcggctacg gggccatcag cgtgggcagc cgactttctca taccggtccc 240

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<211> 71

<212> DNA

<213> Zea mays

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<400> 40616

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aaaaactttt t

71

<210> 40617  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A5

<400> 40617

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cggcacatg 429

<210> 40618  
<211> 115  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A9

<400> 40618

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<210> 40619  
<211> 366  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 40619

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 aagcagtaca ccaagtaccc ggagctgtgc gtcaagtccc tgctgtccgc ggcgccggag 240  
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 ggcatg 366

<210> 40620  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 40620

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 tggcgctct cctggcgctc atgctgctcg tcgggctcgc cgtgggctcc gaggaggagg 120  
 aggacggcgg cggaataaag aagccccacg tcaaccacgg caagtttaag gcggagccgt 180  
 ggacggacgg gcacgcgacg tactacggcg ggcgcgacgg gttaactgac accacggacg 240  
 gcggcgcggt cggttacaag ggcgagctgg ggaaagacta cggcaccctg acggcgggccg 300  
 tggggccgct gctgtacacc aacggcaccg ggtgcggcgc gtgctatgag ctcaagggcc 360  
 ccaagggcac cgtggtggtg acggccacca acgaggcccc gccgcccgtg aagcggcaga 420  
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<210> 40621  
 <211> 469  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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cgacgtcacg tccgtgaacc ccaaggtctt tcacatggcg ctgctgtctg tgaagaacat 120  
 ccggatgagc gggctcaaga tcagcgcgcc ctccaacagc ctcaacacgg atggcatcca 180  
 catcgagcgc agcagcggga tatccatcat ggacacgcac atcagcacgg gcgacgactg 240  
 catctgcacg ggacagggca acgacaacgt ggacgtggcc cgcgtgcagt gcggcccatg 300  
 ccacggcatg agcgtcggca gcttgggtcg ctactccggc gagggagacg tcacacgggt 360  
 gcacgtncgc gacatgacct tcacgggcac catgaacggc gttcgcacga agacatggga 420  
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<210> 40622

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-B12

<400> 40622

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 ggagcatgtc tccggcgatg aggacgactc ggatccgacc acccccgta tcgctgggcc 120  
 gctgtcgcca acgacgtccg cgcgcgtgct ccacctncac caccatccca ccggcatcga 180  
 ggcattctca cgagtataa ggagctgggc gtggaagaag ttcattgtctg gatgggtgcg 240  
 aactctcgta catatgaata ctgcgtcatc ctgcttccga tcgccatcac cttttacacg 300  
 acatggtggt tcattcgctt cgtcgacggc ttcttctcgc ccatctacgt ccatatcggg 360  
 atacacctct tcggcctcgg gtttgcacc tccatcacct tcattcttct cgtcggcggt 420  
 gtcacg 426

<210> 40623

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B2

<400> 40623

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ccgtggtggc taccgccgcg ctggcgagcag ctccccggccc cgcggcgacg ccgagcgggc 180  
 cgccgaacgt gacggcgatc ctggagaagg gcgggcagta caccatgttc atgcggctga 240  
 tgaaggagac gcagcaggac acgcagctga acagccagct gaacagctcg tacgccagca 300  
 gcgggcgggc gtacacggtg ttccgcgcca ccgacaacgc cttcaacaac ctcaagcccg 360  
 gcacgctcaa ctgctgacg c 381

<210> 40624  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F1

<400> 40624

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 tgggtatggg tggcgggtggc gtggggaggc ggaaggcggg ggccgccgcc gccgcggcta 120  
 gtcgggagtg gatggtggtg ccggcgctcg gcccggcgcg ggtggaggaa gcagggaagc 180  
 acgcggtgat ggcgcgtacg gggcttcccg cgcgcgatct cagggtgctc gaccggttac 240  
 tctcgtaacc gtccacgac ctgggccgcg agcgcgccat cgtcgtaac ttggagcgcg 300  
 ttatagctct gatcacagcc gcggaggtgc tgtttcctaa caccaag 347

<210> 40625  
 <211> 145  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B6

<400> 40625

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 ggggacatga ccgtctgcgt ctccccgtct ggcctgatct ttaaggagct gtactccaac 120  
 gttgtgcccc ataccgctgt taact 145

<210> 40626  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B7

<400> 40626

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tattcctgcc aagataaagg taatggagtc gtcacgcagg ttccagccgg ccgtcatcct 120  
gcttctcctg ctcatgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag 180  
tgagcgatgt gttggggcat gcatgatcgc agacaactgc gccaatgtgt gccgcggtga 240  
gggcttcttg gccggcaggt gcagcacctt ccgccgcgcg tgcattctgca ctaggcagtg 300  
ctaaacaaga tcgctcgatc gctcgccatg catcgacaac ctattcttaa taacgttcat 360  
tatctcgctt ttatttatga ccaatgtcat gtatgttctg gtgactgtca tgtatattct 420  
gatgactggc atgtatcttg ttcattgatg 450

<210> 40627

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B9

<400> 40627

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gggtggggag acgagtcggg cagctgtaac tgcgaggata aaaccgtctc agaagcatta 120  
gagtctggtg caaatgaaag acccttggag aaaaccatgg ttcctaatga aagaaagc 178

<210> 40628

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-C9

<400> 40628

tccacgcatt cgtgaagatg ttatatacca cacattctgg ttggctgagg gatggtcact 60  
tcgggggtca ccagggtgca tgcggtgaaa gcac 94

<210> 40629

<211> 334

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-040-Q1-K1-D10  
 <400> 40629  
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 cgaacaaggg tgtcaaccct gatgaggctg ttgcctttgg tgccgctgtg caggggaagca 120  
 tcttgagcgg cgaggggtgg gacgagacca aagatatcct cctccttgat ggggctcccc 180  
 tcaccctggg tategagacc gtcgggtggag tcatgaccaa gttgatcccg aagaacactg 240  
 tcattccgac caataattct cagggtgttca ccacctacca gtaccaacat accactggct 300  
 ccatccaggt cttttgaggt gagctcagta tgac 334

<210> 40630  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-040-Q1-K1-D12  
 <400> 40630  
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 taaagatgct aaagaacaac tactttgtta tcaggcttgc tgattgcatc cagctcaaag 120  
 agttccacat atctagtttg agaatccac gtggtctgga agctcctcaa agcaagccct 180  
 ttcatgcagc agataaggcc accggacgcg gtaatcgctg acctgctgat ggcgccttgc 240  
 ccggcgcaag ggctgcggat caaatgggtc accgagccta cgagctgggg agcagcggca 300  
 agaagcggaa agcaaccgca gacgcccctc accatctggg cagagcagca gcagcagcac 360  
 attcccggaa tgtcgccgca gcctccaacc cgaacggcgg cagctaccgg cacagctctt 420  
 cacaggccat a 431

<210> 40631  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-040-Q1-K1-D2  
 <400> 40631

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 cgtccgcagc agcagcagtc tccctccgag gaaggagatg acaaggagaa accaacacat 120  
 ttgagatttc tagtgtctaa tacggcagca ggggtgcatca ttggcaaggg tggatcaacc 180  
 attaattgatt ttcagtccca gtctgggggt cgtattcagt tatcacgtag caatgagttt 240  
 ttccctggta caaatgacag aatcatcatg gtttctggac tgtttgatga agtaatgaag 300  
 gccatggagc tgattcttga gaaactgttg gctgagggtg aagaattcaa cg 352

<210> 40632  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-040-Q1-K1-D5  
  
 <400> 40632

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 gacccgagag atggacgcga ggatgttcgg gctggagacc ccccggtgg cggcgctgca 120  
 tcacctgctg gacgtgcccg acggcgacaa ggcgggcggc ggcgccacgc gcacctacgt 180  
 ccgcgacgcg cgcgccatgg cggccacccc ggccgacgtc aaggagctcg cgggagcgta 240  
 cgcgttcgtg gtggacatgc cggngctgag cacgggcgac atcatggtgc aggtggagga 300  
 cgagcgggtg ctggtgatca gcggcgagcg gcgccgggag gagcgcgagg acgccaagta 360  
 cctgcgcatg gagcggcgga tgggcaagtt catgcgcaag ttcgtgctgc cggacaacgc 420  
 cgacgtggac 430

<210> 40633  
 <211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-040-Q1-K1-D8  
  
 <400> 40633

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 tgctttgtga cgagaactgg ctacaccggc gaagatggtt ttgagatctc tgttccggca 120

gagaatgcag tggatcttgc agaggccatc ctatagagat cggaaggcaa ggtgcggctg 180  
accggcttgg gcgcccgtga cagtcttcga ctggaggcag gcctgtgcct 230

<210> 40634  
<211> 341  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-040-Q1-K1-D9

<400> 40634

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tggtgggact gcaaagagcc tggccacatg gctaacagct gccc aaatga agggatatgc 120  
cagaactgtg gcaagtccgg tcacattgca agagactgca ccggtccacc attgccggca 180  
ggagaagtga tgctttgcag gaactgctac aaaccagggc attttcgtga ggaatgcacc 240  
tatgagaagg cctgcaatat ttgcgggttg ancggccacc ttgcccgtaa ctgcaccaat 300  
gatcctgttg gcaaccaggg caatagtggg ggccattttg c 341

<210> 40635  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E11

<400> 40635

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accccgcgcc gcttcgatct cgtcgtcgcc gcagacgtgg tctacgtgca ggagtccgtg 180  
ccgcacctca tcgcggccat ggatgcgctc gccgacgccg agcgcggcgt ggtgctgctc 240  
ggctaccaga tccggtcgcc cgaggcgac caggtgttct gggagaccgt tccggctgctc 300  
ttccccggtga tcgagaaagt ggcacgggag cacctcgacc ctgagtacgc ctacgaggaa 360  
tccgatgtat tcatactccg aagaagcccc cgtcagtgag gtcaggtggg gaacttttgc 420  
cagcagttta ctccccgat 439

<210> 40636  
 <211> 221  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-040-Q1-K1-E12  
  
 <400> 40636  
  
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 cagcgactga ggggccaggg tattgcctct gcagcctctt gtatgatgaa gagcaatcaa 120  
 aaggaacaaa ttgggttgcgc tgtgctgtgt tacatccagc gtcgctaatt actctgttgt 180  
 tattcaggct ccataacaat tgaatagata tgtgcttgct t 221

<210> 40637  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-040-Q1-K1-E2  
  
 <400> 40637  
  
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 cgggcccact ccacatgagc atggaggact gcatgaagag gtgcaaggag atcgctgcta 180  
 agcagggggc tagggaccct tacaaggata acaaacttga catcccatga actaattaat 240  
 gctcctatat catctgcta tccatgcatg cattgcattg cgtatgcaca ctgtgcgtgc 300  
 ctgcccacaa agttcgacaa cacaccgatc tcgacggatt tgtaatcgtg tccactcgat 360  
 cgagagatcg atcgatgctt gttattatat tcggattcca cattatatat aag 413

<210> 40638  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-040-Q1-K1-B3  
  
 <400> 40638  
  
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gaaggctctg ttcgactgcg agcgtggagc ggttccaaag gcgacgacgg accagttcaa 180  
 gtgtgccata tgtgggcagc ggaagacgac ctactaccag ctgcatactc ggagtgtctga 240  
 tgaaccgatg acgactgtcg ttacatgcgt tgaactgcaa cattcactgg aagttctgct 300  
 tgagtgcac ccttggtgaa gtgtttacct agttgtgtctg aacacactat cctgggtgtga 360  
 tgtgtgtgct tctgtatgtg ttactggaag ttcgacaggg caggctttat ctaactaacc 420  
 ttt 423

<210> 40639  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E5

<400> 40639

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 tacgtggacg agcacctgat gtgcgagatc gagggccacc acctcgcggc ggcgacatc 180  
 cgcgccacg acggtgccga ctgggcgcag agcacggcgt tccccgagtt caagaccgat 240  
 gacatggcca acatcatgaa ggacttagac gagccctggc accttgcgcc gacaggcctg 300  
 tttctctgac ctaccaagga catggtcatc caaggcgagc ctggtg 346

<210> 40640  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G6

<400> 40640

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 cagcctacaa ctttatagat cgattgtgct tcaatcaggg atgttatattt gttttgtatc 180  
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<210> 40641  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-035-Q1-K1-G7  
  
 <400> 40641  
  
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 aatagccgca gcatggcatc atcggccgtg ctcttggtgc tagccctcga gctagtggcg 120  
 gccaccgacc cacaggtagc ggaggcaaag aagaagagag cggcagagag cggcgaggcg 180  
 gcggatgcga agaagatcca tgacgacttc tgctcgacgc tgtgcgaggt catgaagggg 240  
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 acggcaggat ccagtgaag ggcaagtgca c 331

<210> 40642  
 <211> 279  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-035-Q1-K1-H1  
  
 <400> 40642  
  
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 ccctcgaggc tcacctcgcc ggcaaacct atgtgtctgg tgactccatt actaaggatg 180  
 acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagttttct aatgccggcc 240  
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<210> 40643  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 40643  
  
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ccttccccac acaagaactt cgctgacgag gttgtcttcc tgaatcactt cttcggtggc 180  
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 cacgtctact acgccgctga gcaccctgag gagcctgtcg ttactctgga gatgtgcatg 300  
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<210> 40644  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H12

<400> 40644

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 tatcccgtt gttgctttat gctaccgctg catgcagtct aggtgttcag tgaaatgtca 180  
 atgcaatddd gctattgttt tgcgattgat tgctatgtgc tagcgtctgt tgtatggtgg 240  
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 tgactgctat gtgcta 316

<210> 40645  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H3

<400> 40645

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 gagatcgagg gccaccacct gagctctggc ggcatagtcg gccacgacgg cgccgtttgg 180  
 gcccagagca ccgcattccc acagttcaag ccagaggaga tgaccaacat cattaaggac 240  
 ttcgacgagc ctgggtttct ggccccgac gggctcttcc ttggggccac caagtacatg 300  
 ggcat 305

<210> 40646  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H4

<400> 40646

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cctttcccac acaagaactt cgctgacgag gttgccttcc tgaatcgctt cttcgggtggc 180  
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cacgtctact acgccgctta gcaccctgag gagcctgtct ttactctgga gatgtgcatg 300  
acttggcttg acaagaagaa agc 323

<210> 40647  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H7

<400> 40647

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atcgccgatg atgttatccc tgaaaatatt aaggccgaca ccacctacaa gaccaccctc 180  
aacatctgat catcctctta tgaggaataa tattgtgaaa gagctcatct gatccatgtg 240  
ccagcgagct aatatttaat ttttgagcta tggttattct atggcaccac accatccaag 300  
aaataaagta tgttacatg 319

<210> 40648  
<211> 211  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H9

<400> 40648

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cgacgcggac atcaccctg gggttctggg actccacaac tctaatacgt cccatgcacg 120  
 tacgtaggc gacaccgggc atgacgcacg caggatgaca cagttgacca agatctgcgt 180  
 ggacagcctt gacggaccac cagaaagacc t 211

<210> 40649  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-A10

<400> 40649

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 taagcaccca tcttgctcaa tcgccgaaa tcaccatata gaccagatca caacaattct 180  
 tgacgtgcaa ggagtgggga cgaaccaatt cagttaacct tcaaggagc tcattggcat 240  
 gcttcagaag attgatggcg acaattatcc aaagaccctg tgccgcatgt acatcattaa 300  
 tacaggccac ggtttccggc ttctattggg cacccttaag agcttttttg acccaaagac 360  
 cactgcat 368

<210> 40650  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-A11

<400> 40650

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 gggcctgggg gtgtctttta cattaccaat tttgggcgcc ttcggcaatg gcatgacatg 180  
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<210> 40651  
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<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-040-Q1-K1-A3  
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 cgcggtgtgga ggacgaggat tccctctgta gcaactgcaact gcaactgcaact gcaagttggt 120  
 gtacacaagt gcatgtgtat gtgtagtagt ccggcctccg ggcgaggaggc gccgacccca 180  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-040-Q1-K1-A9  
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 tgtacacaag tgcattgtga tgtgtagaac t 151

<210> 40653  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-040-Q1-K1-B1  
 <400> 40653  
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 tgctggattt ttccttacag gtgcgcctga ttctatccag ctagtcgctg agcatgctgc 120  
 agcaaataac aaggtgttcc tgatgaacct ctctgctccc ttcatttgtg agttcttccg 180  
 tgatgccccaa gagaaggccc tcccgatgac tgactacatc ttcggcaacg aaactgaggc 240  
 aaagatcttt gccaaagtca gaggatggga gactgagaat attgaggaga ttgctttgaa 300  
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tgctgat

367

<210> 40654  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G4

<400> 40654

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ggatgtcccc gtgcgcgcgc acgacaggga gtacggggcg atggcgaca tcgccttcgg 120  
attcacacac cagccgctcg tcgccgccgg cggcgcatga atcgatgaat tattatatat 180  
atatatgcat gctatctact atgatcgagc gcttctcgac cttcttgcat cgatctgcat 240  
gcatattata atttatatta tattgatgc 269

<210> 40655  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E2

<400> 40655

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agtggccgga gaagatgatg ggcgggttcc tctccagggt tctcctgctg gcttttggct 180  
atgcctatcc tgcctatgaa tgctacaaga ccgttgaact gaacaaacca cagattgagc 240  
agctcatatt ttgggggtcag tattggattt tagttgccct gttgacagtt ttggagagat 300  
ttggagaatt tacaatatca tggctaccgt ttactcaga agcaaagggt gttgtctttg 360  
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catata 426

<210> 40656  
<211> 90  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E3

<400> 40656

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<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E4

<400> 40657

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cggcaacggg ggcctcaagc tcggcgctcg cctcgagagc cacttcagca cacccaacat 120

cccgtacatg aggagctcgc tggacacgct cgccaagctg aagctgcccc tgtggctcac 180

cgagggtggat gtcgtcaaga gcccacaacca ggtcaagtac ctggagcagg tgctcaggga 240

aggcttcgcc caccccaacg tcgacggcat cgtcatgtgg gcagcgtggc atgccagggg 300

ctgctacgtc atgtgcctca cggacaacag cttaagaac ctccccgtgg gcgacctcgt 360

cgacaagctc attgccgagt ggaaga 386

<210> 40658

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E5

<400> 40658

gggacatcag caagctgaac atggccgctg ccatgtacat ggctcaaggt cctagactgt 60

ggcctcctat caccgaattc ttgggtatgg caagctccat cagcccatgc acgaatgtgt 120

tctgagggct tccattgact aacgggacac cc 152

<210> 40659

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E8

<400> 40659

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cgcgaccccg gtgagcgtgg aggatgcgtg ccgcggcacg ttagagacgc acgccggcat 120  
ggcctactac cactgcatgg cgtcgctggt caccgacccg cgcagcaagg acgccggcaa 180  
caagaacatg cacgcgctgg cggctgctggc caccaggatg gccattg 227

<210> 40660

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E9

<400> 40660

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tgggtacaag gggttctatt cgagcaatta tcttcccatg acaccaaaga gtgtgaatga 180  
tatccacaaa cgaggtggta cagttcttgg aacatcacga ggtggccatg ataccaaaaa 240  
gatcgttgac aacattcaag atcgtggaat taatcacgta ttcattatag gaggagatgg 300  
aactcataag ggtgcatatg agatttaca ggaaattcgg aaacctggtc tacaagtagc 360  
tgttgctggt attcccaaga ctattgataa tgatatagct gttatagaca agtcatttgg 420  
ttttgatact ggtgt 435

<210> 40661

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F12

<400> 40661

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cttctgtgtc gtgcatggtg agaaggcaaa gtcaaaggac aacgatgcaa aagcgccgg 120  
gcccggggg tccttcgaca tcaccaagtt gggcgccctac ggcaatggca agacggatag 180

cacgaaggct gtgcaggagg cgtgggcatc agcgtgcggc ggcaccggga agcagacgat 240  
 cctcatcccc aagggcgact tctctgtcgg accactcaac ttcacaggcc catgcaaggg 300  
 cgacgtgacc atccacgtga atggcaatct gctggcgacc acggacct 348

<210> 40662  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F2

<400> 40662

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 cctgcgttcg ggccacacca agtgcatttc cgacgacatc aaggtgggcg ccatggccgt 180  
 cgggaagtac caagtcatgg ccccgacgg cgtcgctctt tcgtcgtcgt cacagcagct 240  
 tccggactct caccgcatct cgctgcgggt cacctcgccc ctacgcaaca gtctgcacta 300  
 cgcgaggagaac ctgcactcgg gcaac 325

<210> 40663  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F3

<400> 40663

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 tcgtctgact caccgcgctt tcacgcctcc ctacacaaat aaggtcccg ccttttcga 120  
 cattcacagg ggggacagga aatcagcggc catggcctcg attccggcga cgaccttcgc 180  
 cgtcatctta tccgtctctt tctgtgccgc ggctggcacc ggcgtcgaca acgacctccc 240  
 cgactacgtc atccagggcc gcgtctactg cgacacct 278

<210> 40664  
 <211> 301  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3075-035-Q1-K1-F5

<400> 40664

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tgcttctgca ctcgaactga ttggacaaaa gctccaaatg gatacactgc aaagtcgact 120  
tgatgcagag ttcttcttag ctcatatgtg ttcagtcaag tttaatgaat ggatcgtggg 180  
gctagctact ttattgcggc gtgcagaggt tatgggtggat ctcttttaggc atgatttgcg 240  
attgtggaaa gcatatagca ttactctac agtcacatga tgtattcaca gaatatcttg 300  
a 301

<210> 40665

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F7

<400> 40665

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tagtagatct tcgatcgttc atgcaagcta ataagtcagt aagcagcagt aggtcgaaaa 120  
tggcgatgag gtcgctagcg ctactggacc tcctcagcct gctggttggt ggtgtggcgc 180  
atgcggtgga gttggagatg gagttggtgc ctgctgatgc aattgcgatg actatggatc 240  
atgagccgtc gcaggagtgc gcgaccccg tgagcgtgga ggatgcgtgc cgcggcgcg 300  
cggagacgca cgccggcgat ggctacgac cacttgcatt gcgtctgtgg gctgccgacc 360  
cgtgcagtaa ggatgccggc aacaagaaca tgcacgcgct ggccgtgctg gccaccatga 420  
tggccattga ccacgc 436

<210> 40666

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F8

<400> 40666

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cgactccatc cccatcatct taatcacgaa ggatatttca aaagcagtag tagtttagtc 120  
aaattagata tgcggttttag gattctagtt gatatgcgtc cattattttg ttcacatcga 180  
atgcagcagt gtggttagcta tgtagttgca tacctatcat aactaagtct attagaagta 240  
tttctaataa tatttatgat ctgtcatcaa taaaatgtat gcaacaatac gactataaaa 300  
aaaaaaacta ataaaatatt aaatgagaaa taataaaaa 339

<210> 40667  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G1

<400> 40667

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ggttcaagaa aagcaaaaaa tatatttctc ctttctactt caacatctag cgatgtatct 180  
gcatgtaagc tcttcgttgg tatcgaggct acatccagat acatcactag atgttgaatt 240  
ataaaggaga aatatatttt tggtagtttc gtcaatccta aagaagatgg taagaattgc 300  
aatgcaaatg caggatccac agataaagaa cgtgttcaat tgcttcattt gaatttatta 360  
acttttgggc 370

<210> 40668  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G11

<400> 40668

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tgatgtcccc gtgcgcgcgc acgacaggga gtacggtcgg atggcgcaca tcgccttcgg 120  
attcacacac cagccgcgcg tcgcccgcgc cgccgcatga atcgattaat tattatatat 180  
atatatgcat gctatctact atgatcgatc gcttctcgac cttcttgcat cgatctgcat 240  
gcatattata atttatatta tattgatgcc 270

<210> 40669  
<211> 351  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G12

<400> 40669

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ggacacaggc ctagccaagc agcgcctaccg tatatctaca tgcgaccgtg ggacagcgtc 120  
agccggaggc cggagcagct cgatcgggta gttgccgcgc gaccgtcaga gacctctgtt 180  
tctttgggtt gggttcgggtg tttctctttc tatttatggt ttactaatta gttgtccgtg 240  
tgttgcgacg gtacataaac accattgata aagcattagt agtaattaat tttagatcac 300  
ttcatgagat gcgctctgcc gacatgagga aaaactcatt cattttttat t 351

<210> 40670  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E12

<400> 40670

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ggtcacgggc ccaactccaca tgagcatgga ggactgcatg aagagggtgca aggagatcgc 180  
tgctaagcag gggcctaggg acccttaca ggataacaaa cttgacatac catgaactaa 240  
ttaatgctgc tatatcatct gcctatccat gcatgcattg cattgcgtat gcacactgag 300  
cgtgcctgac cacagagttt cgtcaacaca c 331

<210> 40671  
<211> 480  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C6

<400> 40671

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 aacatgcccc acaacgcctt tcgctgcggc aaggctcgtg ggctgccgat gacggcatcc 180  
 tacgcccgcg cgcgctaaag acgacgaatg cgccgttttc acctcgacgt tctgaccatc 240  
 cagtctaaact aatccattcc tgagctgctc ggcgaaatat aatcatcaaa tagaaciaaag 300  
 acgaatgaag cctaggggaag ggagaaggca cgttgggtgt gggtagacca aatgagaacc 360  
 cacggatata totattgacg taatcttggg gatgcctctt caattaactg taatgggggtt 420  
 aaaaaacaat ccttgtaatg ggagggatat atacttttat cttaaccttt atttacacca 480

<210> 40672

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C7

<400> 40672

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 catcgagaac ggctgcaacc ccaactacct ggccgtgctg gtgaagtatg tggcggacga 120  
 cggcgacatc gtgctgatgg aaattcagga caagttgtcg gctgagtggg agcccatgaa 180  
 gctctcttgg ggcgccatct ggaggatgga cactgccaaag gcgctcaagg gcccttctc 240  
 catccgccta accagcgagt ccggcaagaa ggtcatcgtc aaagacgtca tccacgcgaa 300  
 ctggagaccc gaagccgtct acactttcaa cgttcaattc tactagactt 350

<210> 40673

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C8

<400> 40673

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 ccaactggta accagaacta ccggcttctg aaccagatgc aggtgttcca ccacctcggc 120  
 ggcagtcagc agccgtcgtt ccaccaggac ggcagcgcgg cggctttcgg tgacatcgtc 180

tcctctcgcc tgcggtcact gcccaaccggc agaacgcatg ccgagctaca ttccaaccaa 240  
 tttagacacct acatcagcgg cgggctggtg gatcagtcga tgctgatcgg tgacgaacac 300  
 ctgctgagggc ctaaccgag tatggtcaac gtctttctgca tgcccgcgct ttctaccgt 360  
 gagccggat 369

<210> 40674  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C9

<400> 40674

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 ggcactcatt agaatgcaag ccgattcgac cctgccagtt gcacaacgac gcaactataa 180  
 gaatgctttc catgcactct accgtatcag tgctgatgag ggagtcctcg cgctttggaa 240  
 ggggtgcaggt ccaactgtgg tgagagctat ggcaactcaat atgggtatgc ttgcttccta 300  
 tgaccagagt gtcgagctat ttacggacaa atttggcgca ggagaaattt ctactgttgt 360  
 t 361

<210> 40675  
 <211> 164  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D1

<400> 40675

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 ggacatgctc taccatatcc tgctggtgca tatcaactat atta 164

<210> 40676  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D10

<400> 40676

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ccagcaacga gtcgctggag aatgccttcg cctactacgg cgagatcctt gactccaagg 180  
tcatcaccga ccgtagact gggacgtctc gcggctttgg cttcgttacc ttctactccg 240  
agaacttcat gcttgacgct atcgagaaca tgaac 275

<210> 40677

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-035-Q1-K1-D2

<400> 40677

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tggttatcac ctattcatcc aggatccaac agaataaag cgacgtgttc gtctgcaggc 180  
caagcaatat cctgctctgg tctgaggatg ttggcatacc agagatccat gatccatnct 240  
acacatcata gaaagttcaa gtttactg ga 272

<210> 40678

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D3

<400> 40678

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ttgcacctga gaccactgcc atccacattg aggttgccgc gaaacaggca gtagttgaga 180  
aggtggagga ggacaaggag gaggcactaa cagtggcggc gaaacatgag ccagcagcca 240

ccatcgagcc ttaacagatt gctggtgagg tgaccaattc ggaagtggct gtcgtcgttg 300  
tcgagcctga gaacaaagag gagga 325

<210> 40679  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D4

<400> 40679

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cgtccccatc ttcaaggacg gcaagggctg cggctcatgc tacgaggtga gatgcaagga 180  
aaaacctgag tgctcgggca atccagtcac ggtggacatc actgacatga actacgagcc 240  
tatcgcttcc taccatttcg acttgagcgg caaggccttc ggctccctgg caaagcccgg 300  
gctcaacgac aagattcgcc actgcggcat tatggacgtc gagttcaaaa aggtgcgatg 360  
caagtacccc gtcgggcaga agatcgggtt ccac 394

<210> 40680  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D5

<400> 40680

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acgccggcga ttgggtcttc ctgttcggcg ccctccccag attgccccac ccaccgtcag 120  
cctcgtcagg gtccctccag gacaaaccat gtcccggaga cagatgcggc agagctgggg 180  
caggagcaga gccatcacag aaattcttgt ctccagattc ttggtcaaag gaatgttgga 240  
cacctgctag ccaatgtgca gccgcgagag ggcttagaca gataatatgg tcgacggcat 300  
ggacttctag gagctctgca gcgacttcga atgcataagc agcccctacg tggagtccat 360  
tatgaggcca tgtcgcgccg gacatctt 388

<210> 40681

<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D7

<400> 40681

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attcagttcg tgcaccaccc cactcacctt ccaggctggc aagggctcca agcctggcca 180  
cctggttctc acccctaaca ttgtcaccat ctctgacgtg tagatcaagg agcatggcgg 240  
caaccatttc tcctttacac tcaaggaggg ccagctggc acttggacgc tcgacaccaa 300  
ggccccgctc aagtaccccc tctgcatccg ctttgtacc a 341

<210> 40682  
<211> 472  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D8

<400> 40682

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ttttctgttt caaaaaattt agtacttgta ttcatagtaa catttgatgc attaattgat 180  
acattcttat tttcatatat aggtttttga tcatctcggc atgttaaaga agaagaaatg 240  
catctagctg taaagaaaag gaaggcaa atcatcttat gcaattattt gtgtgctgtc 300  
ggcggcgcgc tatggctacc ggcaaagaac tacctgatcc ccatggacgg agctggaacc 360  
taatgcctgg caaacacact gattaacaca gtcattgtaa tcattgggaa cgtgcagcag 420  
cagggcaccg gtgtcagact gtcagctttg acaccgtcaa gggcgccatc gt 472

<210> 40683  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D9



<400> 40683

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tggggagttg cttacagaat aaaggaggaa gataaggaga tagctttgga gtatcttgag 120  
gtcagggaga agcaatatga tgagaagggt taccttgact tgtatactga ttcacgcgcc 180  
aaagtaccag ctgtcgaaaa tgtgatggta tacttcgcca ccagtaacaa ggagaacaat 240  
caaaactatc ttggctctgc acctctggaa gaaatgacca ggcaaattta ccttgctcaa 300  
ggcccatctg gacctaacaa agagtatgtg ttcaaactcg aggacgcgtt acacaaatta 360  
ggagttgtag accaacatgt tcaagaactg gcaaatgtc tgcgtagta ttctgacacc 420  
gagttatcta agtgaaagat cacatttacc cc 452

<210> 40684

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E1

<400> 40684

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tcaagagctt acattgcac aacgcgagcg tgcaaacatt ccatggcaac gtcgaagacg 120  
caacgtgtgg cgcaaag 137

<210> 40685

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E11

<400> 40685

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cctcaacggt ggctcaagc tgggcgtcgg cctctagagc cacttcagca caccacaat 120  
cccgtacatg aggagctcgc tggacacgct cgccaagctg aagctgacca tgtggctcac 180  
cgaggtggat gtcgtcaaga gcccacaacca ggtcaagtac ctggagcagg tgctcatgga 240  
aggcttcagc caccctaacg tcgacagcat cgctcatagt gcagcgtggc atgccacggg 300

ctgctacgtc atgtgcctta cggacaacat gcttcaagaa cctcccc

347

<210> 40686

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C5

<400> 40686

cagcaagagg gtcaactggc caggctacca cgctcatcgga caggccgacg ccacgccatt 60

caccggcggc gccttcatcg acggcgcgtc atggctgcag agcaccggca cgcccaacgt 120

catgggattc accaaagggc aatgatcggg ggattgcagt atgcatgcga tgatgatacg 180

cgcgcgtgtc ttcatgcatg caacatgctt ttgggtttat ccggaaactg ctagcatttt 240

tgtgcgcata tatatagctg gaagctcctg tgcacgcatg cagggtgaat aggatgacct 300

gtctatatgg gtagtacgtg gagctaacgc aagtgtgtgt acgtgtttgg cacggctccg 360

gctactttta aattgacttc ggcttcaaca tttttacagg aggaattttt aataaattat 420

ttggcaaaac gaataatata aaaa 444

<210> 40687

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A9

<400> 40687

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tcgtgcgctc catcatgcgc cacgtcggcg agacgctcga ggtcgacctc gagccgctct 120

accagcggat tggctggccg ctctaccgca agtacgggtca cgccttcgag gccttcaagc 180

tcacgtttgc ggacctgac gctatcctcg acgtactcac ctatgaggaa aaggaggctc 240

gccagatgg ccaggagggtg gctaagggtg tgcctgctgt caccctgag gttaaggatt 300

cactggtgaa gaacataagg aggaggatga caccgcaggc actcaagatc cgggctgata 360

tagagatgaa 370

<210> 40688

<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B11

<400> 40688

acatagagtc accaagcgat gaactcggct aagtttctat caaccaaccc tacatagcta 60  
gacacggtac ccatggctcg cgctagcgtc gcctttgtca ttgccgatct cctgttcgtc 120  
gccatggtac aatcacccat ggccgaggca tagtccgctg atgcttctgt ggctgactcg 180  
ccagccgatg gacctagcgg tccaacatgc tgcacctgtt ccacaggggtg tcgaaatgcc 240  
tatcatgcaa tgaagatgac gattattact tcaccaattg atgtctcaca cg 292

<210> 40689  
<211> 194  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B2

<400> 40689

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tttcacatga cgtcctgcac tactgagggg gagctatacc taaagtgcag acgaaatgac 120  
gtatctgctg aagagatttc cgcttacacc cgactcgtct acaccttgca ccagggatgg 180  
gagtccgacg agac 194

<210> 40690  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-035-Q1-K1-B3

<400> 40690

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gtgatgggtgg accaactcaa agggcatcag ccttggcagc tctttcatcc gcattgaatc 120  
catcgtcgca aggaaaacag tcagatgaga ggcccacaaa acccagcagc acacaggcgc 180  
agtctcattc aggccaaggg tctcagagag ccgctgctgt tgcagcactt tccaatgttt 240

tgactgcaga gggatcgac agccccgcc acagtaggtc gtccccaaca gcagatgctg 300  
 agaagactga attagctcct gcttctnctc accagttgga aacagggcct gcagaagatg 360  
 tccggacaga acctgatgtc tcacatgaac aaactgctta cgaaaaac 407

<210> 40691  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B4

<400> 40691

gcacagagac accaagcggt gaactcgct aagcagctat caaccaaccc tagaaagcta 60  
 gacaccggac ccatggctcg cgctagcgtc gtctttgtca ttgccgctct cctcttcgtc 120  
 gccatggctg tagcaccgat ggccgaggca aagtccgctg atgccccctgt ggctgacgcg 180  
 ccagccgatg gacctagcgg gccagctgct gcacctggcc cccaggggtgt ctaatgcctg 240  
 tcatgcaatt aggatgacga tgatgactcc accaattgag gccacactac gttgcacggg 300  
 ttaaattttg aacaagacat ggatgaaaaa tgagagcaat gtcttttaaaa ccatg 355

<210> 40692  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B6

<400> 40692

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 tcctcgctct cgcgctcgct ctatggctgc cggcgctggt agctgtcgac cacgtccact 180  
 ttcagtacaa tggattcctc atcgggctgc tgctgctttc gctgcacttc ctcgagcagg 240  
 ggtgggatct tatcggggga gtcgtgttcg catgcttgct gtgctcgaag cacctgttcc 300  
 tcgtggcagc gccggtgtac tttatgtatt tgttcaggca ttattgctgt ggccggtgtg 360  
 tcgtgaaggg gctgggaagg ctcgtgctga tgggttctgg agtggctggt gttttggcgg 420  
 cacatttgtg cccttcgggt attatgtca gatgcaac 458

<210> 40693  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B9

<400> 40693

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ttgctttatg cgaaggggtt attgctggca gttactttgg ttattgattg ttggctggcc 120  
tttgctact ttctgggatt tcttggtata tatgctgtag ctcaacagcc accttatgat 180  
ggcctaggcc attcaaatca ttgacccca ttgcaacttg aaagtctgct aactgaagag 240  
ccaacatcac gattttggct ggtagaattc cgaacttcat ttccagcaaa atgtgtacaa 300  
gcaagcagca ttctgctga actttctatc acgtactcca acaagaacat ctcttttggg 360  
acaattgacc ttgggcattt cccaaatgct gcagcaaagt ttgggatatt catgtgggat 420  
catcttctca cttacatatt ggttga 446

<210> 40694  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C12

<400> 40694

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tgtcgcgccc ggaggagggt ctggcgctgg taaagctgcg ggtggcggcg gggcagatca 120  
agcgccagat cccgcccag gagcactggg ctttcgcta ctccatgctc cagaagggtg 180  
cccgtagctt cgctctcgtc atccagcagc tcggaccga actccgcaat gccgtgtgca 240  
tcttctacct cgtgctccgt gccctcgaca ccgttgaaga cgacactagc atcccgaccg 300  
aggatgaagg gcccacctt caggaattct accggcacat ctacaaccgc gactggcatt 360  
attcgtgtgg aacaaatcac 380

<210> 40695  
<211> 180

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-035-Q1-K1-A6  
  
 <400> 40695  
  
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 agggcatccg agcgaacaag ccaagcgacc ccgtgctcaa tgcaatatcg tcgtcgacgt 120  
 accaccacca ccttatgata gagatggaga tgaagaggat cctcttcgcc gttctcgctg 180

<210> 40696  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-034-Q1-K1-H1  
  
 <400> 40696  
  
 gaccgcagga agctgtactc caactttggt ttattgtatc catatggcca cgaagaattg 60  
 gccgtttgtg aagatgttga ccaggttcgt ggtgcaatgg agaagtacc accataccag 120  
 tctatatattt ccaggatttc atatggagaa agtcagatgt tggataaggc attttatgag 180  
 gaggaagtca agaggctatg cttgtccttt gagcagcagt tccactacgc tgttttcttc 240  
 gcttacatca ggctccgcga gcatgacatc aggaacctga tgtggatctc tgaatgtgtc 300  
 gctcagaacc agaagtcccg ggtccatgac agtgctgtct tcatattctg agaacccccg 360  
 ccactatata tgtatgtaca aaatgcctgc tttgatgatg gcacaatcgc tcgacaatt 419

<210> 40697  
 <211> 242  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-034-Q1-K1-H10  
  
 <400> 40697  
  
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 gaaagctggt aaagaggaac atgtagtctt ctggcgactt ggatatctat ggtgggcata 120  
 gaatcaatgt ggaaccaata gggacgctag gtgaagacag gtcatacataa ataagatcaa 180  
 ggggtgacag tgatattgac aaccgacaag ctcttcaagc ataatagatg gatgttgtgt 240

ca

242

<210> 40698  
<211> 78  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H2

<400> 40698

gatgaaccaa cagtctacaa taaaagccag tcacatgcaa ataaaaccga tagacctcat 60

ccctgaggca agcctacc 78

<210> 40699  
<211> 328  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-H3

<400> 40699

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ctggttggtg gtgtggcgca ggcggtggac ttggaaatgg agttggtgcc tgctgatgca 120

attgcgatga ctatggatca tgagccgccg catgagtgcg cgaccctgt tagcgtggag 180

gagggcgtgcc gcggcgcgtc tgagactcac gccggcgtgg cctacgacca ctgcatggcg 240

tcgctgggcg cctacctttt cantnnntgt gccggctaca agaacatgca cgccctggcg 300

gtgctggcca ccatggttgg cattgacc 328

<210> 40700  
<211> 371  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-H4

<400> 40700

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cngggggcgcg gggggaggag atatggatcg gtcgtatctc cccgtggcgg cggcagccgt 120

cgccctggtc ctctgtgtgct gctccggcct ctgccgcggc gagcgggtcg gggcgaggga 180  
 gtgcgaggac ctgggggttca ccggcctcgc tctctgtctc gactgcaacg cgctctccga 240  
 ggtcgtcaag gaccagagt tgtttntnn ntttcataaa tgttgaccg aggattcaga 300  
 tgattctatc agcaagctca cttttctgg tgcaattatt gaggtgtgca tgaggaaact 360  
 ggtattttat c 371

<210> 40701  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H6

<400> 40701

tgacaagatc aaatacctcg ccggctacaa tggcctccat gtcctccatc ctctcgcca 60  
 tggatgatgct ggctgcgcta ttcgttggtc gtttgtgcac cccccctc acctccacg 120  
 tctgcaaggg atccaagcct ggccacctga tcttaccac caaagttgcc accatatacg 180  
 acgtggacat caaagagcac ggtggcgatg actgctcctt tacgctcaag gagggcccg 240  
 ctggcacctg tgctttcttt accattttcc cgctcaagta cccctttgc atccgctttg 300  
 ctg 303

<210> 40702  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-H8

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 gccagccgcc gcaggagtac ggttacggca cgttcaggc cctcgacat cctcccgctc 180  
 ggttcccgca gcctgccccg cctccggggc tctgcggcgg cggcgggggc ggcggctatc 240  
 acaaccagaa gcaaccattt tncnnnnng agacttacta cgcccagggg taccaggccg 300



taccaggcta tggctctgtt gctgaaggaa gacctgtgag aatgaggcgt cttccatgtt 360  
 gtggcctcgg cttangctgg tgtctgttca taactggggtt tttcttggct ggcatttcat 420  
 ggttcattgg agctttcgggt cttta 444

<210> 40703  
 <211> 180  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H9

<400> 40703

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 gctcgatctt aaaccggggc agaaagtacg tgatgtcgga tgtggaattg taggcggcga 120  
 ctgttacatg gctgcaaact atgatgggca agtgcttgggt attgatcttt tggngaacat 180

<210> 40704  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A1

<400> 40704

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 gttctcgtaa ctgtgttgca cacttatgag gatatgatga ccttttcccc agatgatcga 120  
 cagtgaacat attgagcgcc atattttctc ttttgagaaa accaagccag aattctgatc 180  
 ctccatttat gcataaaaag tattttctgaa ttttatgtag tacttatttt gtattcctcc 240  
 ttttgtgttt tttgttcttg taactatgtt gcacactttg gaggatatga tgaccctttc 300  
 cccagatgat caacaatgaa aatactgagc gctataattt ctcatctgag aaaaccaagc 360  
 cagaat 366

<210> 40705  
 <211> 386  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A10

<400> 40705

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ggaaacgaaa acgagcgggg gagctcgcgg accccaaaac cctaaccctg cggacccacc 120  
tggcggcggc ggcggcggcg atggcggacg ggcggaggaga aggaggacct cctgcggcgt 180  
cggcggcgtt caaggaccag gggaatgagc agttcaaggc ggggagctac ctcaaggctg 240  
ccgcgtctta cagcaagcc atcaagctcg accccgacaa cgccaccctc tacagcaacc 300  
gagctgcagc attcctgcag ttggttaagc ttagcaaagc gcttgctgat gcagagacaa 360  
cagtcaggct gaagccacaa tgggag 386

<210> 40706

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A12

<400> 40706

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ttgtctgcaa gatcgccgac gaaaccggca tggagtgggt ctccatcatc accacccccca 120  
acccaatctt tagccacttg gcgggcccga catcgggtgtg gaaggcaata tctccggcgg 180  
tcttgagctc gtcgttcaac accacgccgg agatggagaa gctgttccgt agcaagaggc 240  
ttgactcgga gatcttcttt gcgccttcaa actgattcat tcgccggtgg aaaatgggtcc 300  
atccatctcg agtaaaactg gtgtcctggg tgtgttcttt agcagcttca gtttaaaata 360  
atcaggggat gtcttcatca tcaggttttt agatcggttc atggtaatat aaacttgaga 420  
tggtgcacat gtttcttaat t 441

<210> 40707

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A3

<400> 40707

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ccacatgagc atgtaccagt gcaagaacat gctgatcaag gacgtgaccg tgacggcgcc 120  
 cggggacagc cccaacacgg atggcatcca catggggcgac tcatccggga tcaccatcac 180  
 caacaccgtc attggcgctc gcgacgactg catctgcac gccctggga cctccaaggt 240  
 gaacatcact ggcgtgacct gcggccccgg ccacggcatc agcatcggca gcctagggcg 300  
 ggacaagga 309

<210> 40708  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A4

<400> 40708

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 acccccatgg cggcggtcgg cggcggcgca ggagggaagg tacccttcaa gatcatcctc 120  
 acctccgacc ccaagctccc tttcaaagtg ttcagcgtgc ccgaggcggc gccctttacc 180  
 gcggtgctca agtacccgc ggaggagttc aagggtccgc ccagaccat gcgccatcat 240  
 aaccaacgat gggatttggc atcaaccccc agcaaaagtg catgcaacgg tgtttctgaa 300  
 acatggttcg gagctgcgtc tcatccctcg cgataggggt ggagctgtag tcatgtctta 360  
 cggttagagg atatatacac gtcaatgcat tattgagcaa aacttgagag aaattaagcc 420  
 tttatgttgg ccctgcttgg ct 442

<210> 40709  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-D9

<400> 40709

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 tactagctgt ccgtagtcga gccccgtct cgtcgatcc gtgcccgtca cacgcacgaa 120  
 cccgaggttg ttgatgacct aaatttattt tatgtatttt ataaagcgtt tttattcgat 180  
 tcatgtgttg tatattttgt tgttgtaata tgaacacatg tgattccgat ttatggatat 240

gtgtgcgctt attaaaa

257

<210> 40710  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-E11

<400> 40710

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cccgtctgca ggattgccag gttcctcaag gcgggcaagt acgctgagcg cgtcggcgcc 180  
ggcgccccctc tgtaccttgc ctgcgtcctc gagtaacctcg cggctgatgt tcttgaactt 240  
gccgggaacg ccgtgagggg caacaacgag acctcgattg tgccgtgccg cattcagctt 300  
gctttgcgca acgacgagga gctgaccaa ctgttggggg gggccacca 349

<210> 40711  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-E12

<400> 40711

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gagcacgggg acatcaaag gcggcagcgg cggagatcgg tggtttcgcg gcggcgagag 180  
tggcggtggc gacgctcagg ccggtgcgc acccagcccc ggcggcggcg gtggcaccgc 240  
agcctaggag ggcggtggcg gcgcagtcgc tgcagacgac cgccaccgag gcgctgacgg 300  
cggatctcgc cggcacgacc aacggcgctg tgcattgctg gatgaatagt aaggctacaa 360  
gtgaaatcac ttcacaggga gttactgcaa attctaggag aaagacatag atagtctgga 420  
ccatagggcc ccttaaccaa cact 444

<210> 40712  
<211> 448  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-E9

<400> 40712

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ggccaaaaga caggctgatg acctgttagg agacaacccg atgaagatgt cgtacatgat 120  
cgggtacggc gaccggtacc cgcagcggat ccaccacccg gcctcgtcgt tgcctcgtat 180  
cagggaccat cctcagccga tggcgtgcaa ggatggcagc ccgtacttca actcatccgg 240  
tgccaatcct aaccgcgtgg tcggctcggg ggctggcggg ccggggggagg acgacgctta 300  
cgaggatgac cgtgcggatt tcaagaagtc tgagcccact acctacatca acgctccctt 360  
ggttggggtc cctgcgtact tcgttggcaa ccctaatect ggtcataaca ccagacattg 420  
agcgggtgcag cctctggatc tttcttgg 448

<210> 40713

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-F11

<400> 40713

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gcacgagcct acgttgacga tgatggcgat atcattttta gtaggcgggtg cctgggtgtgc 120  
tactacgaag ggccggcgac gctagaaca 149

<210> 40714

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-F12

<400> 40714

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gaaggcgcca tgaaagctgc ggatgacgcc actcgtgcc ctcagatccc ccggcgttgc 120  
caccactgtg ccgggccact ctccaaggac atggaaacga gcagctgtac atgacctccg 180

ttgggttcgag atagctgctc catgattgga tcggctcttg ggggtatagc aggagcgtgt 240  
 tatgggttgca accattttat gcctgttggt cgacgtcaca taaagggccc aatgggggatg 300  
 catttttttg ttgggtgcacc agcatttatt gtgtttctct ctgcatgtgc tggattagca 360  
 ggtggtacaa taccagccac cgtacagttg gtttcatcat cctgtcatgc 410

<210> 40715  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-034-Q1-K1-F2

<400> 40715

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 gaggaaaaaa aaaaaaaaaa gggaaaaaaa aaaaaaaaaa aaaaaaaac cccacccgtc 120  
 caaaaaatcg cagggttggtg aagcgaatgt acctgaacat gttttttgtg acgaacaaca 180  
 aaaaatttta aacgaacagg attcactgtc aaatatgaac aaccatattg gaatagttga 240  
 gcatttaaag caaaataccg aatccaaggg tnttatggta ctgcgtttct tatatagttc 300  
 ttcattccat gaggggtctca catttacttt tttttttaaa accaggatga aagacctgca 360  
 tctgataagc aacctgaacc tgttttttagg cagcataaac atttgaactt tcctccgttc 420  
 actacccaaa ttcacttgaa a 441

<210> 40716  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-034-Q1-K1-G3

<400> 40716

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 agtcagcaag ccgaccaaca catgttgcca atgccaaaaa gtacaggggc tttattacat 180  
 atgagcgaga gagtatttca tacagagatc caaaagagcg tgtagagat tggaaggaag 240

ttgcaatcga atctacacct ggnccactat taaatacaca atctgctcgt tgcattggact 300  
 gtggcactcc tttctgtcat caggaaagct cacgtgctgg ttgtcctctt ggaaataaga 360  
 tcccaaaatt caatgaatta gttcaccaaa acagatggcg cgaagcattg gatcgactac 420  
 t 421

<210> 40717  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-034-Q1-K1-D11  
 <400> 40717

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 ctctgtgggac tagcaagcct ggcctcgtct gagaccatca agaagcaagt ggcaatcatg 120  
 tatttgtggc cgaaggcgtc agaagtacct ataattggacc cctcaaaaagc attaaaaaag 180  
 cctgttggaa ttctacttgt gaaggctcgt agagcccaaa atttgcgaaa gaaggatctg 240  
 ctgggtaaat cagaccata tgtgaaactt aaaatgtcag atgataaact tccatccaag 300  
 aagactactt gtaagcgcag caatctcaat ccagagtggg atgaagaatt taagtttggg 360  
 gggactgagc cagaaagcca gtctctttga attaaaggct tcgactggga acaggtttgg 420  
 aaacatgaa 429

<210> 40718  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-034-Q1-K1-A6  
 <400> 40718

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 ttggagaaac tttcacagag ctacctccta tttaccctct ggttgatttg cctataaata 180  
 ctagggaag cgctgcagat tttggtgggt cagttcctaa acctgggctt gaagtcaact 240  
 tagtcgacnc tgttccttgn cnaatatcat ttgagagggg caaagaacgg cacttctgct 300

ttttagccat agctcatgga acttctggtt ggattcttct tctagaagaa ttacctctaa 360  
 aacgggaacg aggaattgtc cgtgtcatgg cacctttggc aggatctgat ccaagaatag 420  
 atacaaagca tgggaagtgg ttacatcta 449

<210> 40719  
 <211> 240  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-034-Q1-K1-A7  
 <400> 40719

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 gggaaggaat gcagaggtcg cggaaggccc ttctgcggag gacggcggcg gcgcaggtgc 120  
 atagcgcatt ggcgagggt gctggtaacg ggaggaagag gcgtctgtac ggcttttccg 180  
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<210> 40720  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-034-Q1-K1-A8  
 <400> 40720

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 gcatgccaag tgcattggcg ggatactggc tcactcacct tgtctgaacc ggatatecct 120  
 tgctgggctc acagagctac ctgactcggc tttgagcacg ctgagagtgt ctggatcatc 180  
 tctaaaatcc ttttcattgt actgctggc tggcataaca gatgatggc tagcacacgt 240  
 ggctattgcy tgcccgaaca nnnagaggt tgaacttcaa agctgcttta aactacaga 300  
 tgctgccttg gaaagtcttt caaaaggctg ccgtggtttg aagagtctaa accttggttc 360  
 ttgcatgggc attacagacc aagggtttc tgccatcttc agcaattgtc caaacatctg 420  
 cacgct 426



<210> 40721  
<211> 284  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A9

<400> 40721

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cttgttcttc ctggctctct tctgcatcgt gcatggtgag aaggaagagt caaagggcat 120  
ctatgcgaaa gcgtccgggc ctggtgggtc cttcgacatc accaagttgg gcgcctccgg 180  
caatggcaag acagacagca cgaaggcttg gcaggaggca tgggcattgt cttgcggcgg 240  
cactgggaag cagacaatcc tcatacccaa gggtgacttc cttg 284

<210> 40722  
<211> 295  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-B1

<400> 40722

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gcatggtgag aaggcaaagt gaaaggacaa cgatgcaaaa gcgtccgggc ccggtgggtc 120  
cttcgacatc accaagttgg gcgcctccgg caatggcaag acggatagca cgaangctgt 180  
gcaggaggcg tgggcatcag cgtgcgggcg caccgggaag cagacgatcc tcatacccaa 240  
gggcgacttc ctctgcggac cactcaactt cacaggccca tgcaaggcg acgtg 295

<210> 40723  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-B3

<400> 40723

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ggcgtggatt catttttggc cgcggggaga ccctcatcaa tgatctatac tagctccata 120

cgaatggtga taatccacaa atagcatttg tattatgaag aatgtatgtg accactgacc 180  
 tgtgagacaa atactgatat gtatttaaac acggttgtga tgcccaaagt cttggagaaa 240  
 caccctacaa attcaaaagt gcactagaag gaagaaaaaa cactgagagc tcaagcaaca 300  
 accaatgata actacttgcc cccacttgat atatttta 338

<210> 40724  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-034-Q1-K1-B4

<400> 40724

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 gaggggccaac attcttacgg gggcgagatc ctcccgaatt gcttggtgct ggattttgtg 120  
 acgaacgtcc acatccgctg gatcacactt ctcaacaaaa agttcttgca cctaaacatc 180  
 ttcgagtgcga agaacatcct tatcgacaaa atgactgtct tgggtcccgt cgacaggccc 240  
 aacacagact gcatgcacat cnnncnncnc agcaacgtga ccatcatgaa ctccaccatc 300  
 ggcatgcgct actact 316

<210> 40725  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-034-Q1-K1-B7

<400> 40725

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 cagcagtccc gagggatagc actgatgcag ggcatctgcg ccgtggtgta ccgcaaggcc 180  
 gataacacgc cctgccccat caagcagggt ctctacttgg gatctggttg agcagcattc 240  
 aataaggagc ctctcaanan ttggaacatc acccatatct tgatcggttg aaagtcactg 300  
 gatccagtat ttccagctga atttaattac aagaagatcg aagtacttga tatcccagac 360

actgatctgt taaagcattc tgatgaatgc tttggtttca tagatgaagc tataagctct 420  
 ggaggcaatg ttttgggtcca ttgctttgct gggcgg 456

<210> 40726  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-034-Q1-K1-B8

<400> 40726

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 gaagcagccg cctgcgctcc gcccgaaatca ccgcccgag ctccgcgact tcggcggcgt 120  
 cacgcagcct caggcaacac gggagcgctt cagcgtcgtc gtcgtcgtcg ttgcggccgt 180  
 tctacaactt catgccgtg ccggttggtc cagttcgtg tgagaggccc ctgagcgaga 240  
 tcaaggccca cggctccnac agntcgcacc tggaactgaa gctgtaaggg agcgcatata 300  
 actggaaccc tcaactccctc tgttgtatgt tccttctgc agcgggaaca gcgctcgtcg 360  
 tcgtccagaa gaagactgtg gcggcgtggt tggttttgta acctgaaaca ccgccatgtg 420  
 catcagaatc tgcg 434

<210> 40727  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-C10

<400> 40727

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 aagaattagc tgtcacatgg gttcataaat gcttcaggg aatattgact aatgaaacaa 120  
 ggtgtctgag atgtgaaact gtgactgata gagatgaaac attgtttgac ctgagcctgg 180  
 acatcgatca gaatagttca ctcaccagct tgcttaagaa cttcagctca acagagactt 240  
 tgaatgcaga tgacaagttc ttctgtgaca aatgctgcag tttgcatgaa gcacgaaaaa 300  
 ggatgaaaat aaaaaaacca ccaaacattc tagtaattca tctcaagcgg atcagtggta 360  
 ttgagcagct ttagcgctac aaatagctat tataccgagt ggttttccca ctggagctta 420

accttgtaat acaggtgggtt attc

444

<210> 40728

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-C11

<400> 40728

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cgccggcagt tgccgcggag accagcgacg acgccatcca ggaggagtct ccagccacgg 120  
cccccttctc agacggaaag cccggatcag gggcgggcggc ggccccggcg cctgaggtgg 180  
aggtgcagct gttccggctc gggcgctccg tgggcgtggt ccggtcggag ctgggcgggt 240  
atacgcagga ccagctggag gtgggcgaca tcttgagca gcacggcctc aagtccgtct 300  
tcgccttcga ccctgccggc cgcaaacggc gcgtcgccat ccggttcaac cctcgcaacg 360  
gccgttcgct gctgctgtac gcccctgggt ccaccatctt tctagaccgg gagcccaaag 420  
attcttt 427

<210> 40729

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-C2

<400> 40729

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gagagcgacc cgccaccgtc acgcttgcc gcaagccgag aagagtgccg ggccgggaga 120  
ccggacgata attgatccgt agcagattcg ctaatggcgg agacggcgga catggagcgg 180  
atcttcaagc ggttcgacac caacggcgac ggtaagatct cgctgtcgga gctgacggag 240  
gcgctacggg cgctggggtc caccncnacc gacgaggtgc agcgcatgat gggcgagatc 300  
gacaccgacg gcgacggctg catcgacttc aacgagttca tcaccttctg caacgccaac 360  
ccgggggtca tgaaggacgt cgcaaaggct ttctgatcca ttacatcttc gtccatacga 420

ttcaatcgat gatgaacctg cttatatata cacacac

457

<210> 40730

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-C8

<400> 40730

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atgttactgc tgacacattg gaaaaggaca cggaatgtg gcagcaacga gtagaaaaat 120  
attggagttt gttgggcccc aaggtaaaac cagacactat tagaaacatc atggacatga 180  
aagcaaattt tgggtcattt gctgctgcac tcaaggaaaa agacgtatgg ttgatgaatg 240  
ttgtgccaca tgatgggcct atccccctca acataatcta ttatagatgg ctgataggca 300  
gcaatcatga ctggtgtgaa gccttctcga cctatcctcg aacatatgat cttctccacg 360  
catgggcagt cttctccgac ctcgataaaa gaggctgcag tgctgaaaac ctgctcctcg 420  
aatgga 427

<210> 40731

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-033-Q1-K1-H1

<400> 40731

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ccgatgtcaa acatgtcagc taatccttca cagcttacia ttttctatgg cggatcagta 120  
tgtgtgtatg actcagtgcc accggaaaag gctcaagcaa tcatgcttat agctgcagct 180  
gcagcggcag cggcagctac caaaagcagt gctgccccta ctgttaaacc tncaatgggtg 240  
gcctgcagcc ctggtggccc aacaagtggc ggttcttccg ggcttacacc ggcttcatta 300  
ctggagaaca cttttggagc aactgggcca ccttaaggtg gtgcttgacc taacttgatt 360  
tgccaacttt aagctgatct tcccattggc aggaaggac 399

<210> 40732  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H10

<400> 40732

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gccgccgcgc cgacgcggct gaggggtgca gcggcagcgg cggggaaccg cggctctctc 120  
tacgtcgccg gcgccgtcgt acgggcggag acgggcgcgc tcaggggatg cgcctggctg 180  
ccaccgaagc cgctgggagc gggccagccg taccggagca ggggggccgt cgacgcgtgt 240  
cactcgtcgg cgcacctcag cgcgcgcacc atccagtgga tctccgacgg agccagcgca 300  
gtgctattag ttgctaaagg cactgccata cacaaatctt tccttggtgc attgtttgct 360  
cttcaggcac cttgcagcat aatctcatgg atcaaggggtg actatggtca gtggactgct 420  
tttcttgctt tcgtggtgcg tctattc 447

<210> 40733  
<211> 259  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H11

<400> 40733

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gcgttcacgt cgaggatgcg gaggggctca cgtagcacat gtgcatcacg ctgacgcacg 120  
ctagcggcgg acagctagga cgttgcagtc ggctaatagca agctgtcaat aacaagtcgg 180  
tcgggttcac tctgaccaac ctggacgcga acttcttgga ccccgacacg gggctggacg 240  
ctgcccata acactcctt 259

<210> 40734  
<211> 451  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-033-Q1-K1-H12

<400> 40734

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tgccaagata aaggtgatgg agtcgtcacg caggttccag cgggtcgtca tcctgcttct 120

cctgctcatt gtgtccaccg atatggcaca tgcaatgaaa tgcgagaagt acagtgagcg 180

attcgttggg gcatgcatga tgcgagacaa ctgcgccaat gtgtgcccg gtgagggctt 240

cttgcccggc aggtgcagca ccttccgccc acgcttcac tgcactaagc agtgctaaac 300

aagatcgctc gatcgctcgc catgcatcga caacctattc ttaataacgt tcattatctc 360

ngtcttattt atgacgaatg tcatgtatgt tctggtgact gtcatgtata ttctgatgac 420

tgtcatgtat cttggtcatg tatgctcaaa g 451

<210> 40735

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H3

<400> 40735

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cctcttcgga ccacctccaa ggctcttggg gtagcttgcc actctcacca atcaagtttt 120

catgtctgat ctgcacattc acatcccaac tgccttcgat cccttcgctg aggccaatgc 180

tggggactct ggtgcggcag caggttcaaa ggactacgta cacgtgcgca tccagcagcg 240

taatggtcgc aag 253

<210> 40736

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H5

<400> 40736

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gctacatctc gatcgggtggg tctctgcctc aactcacac acacgaacgg cgactgccat 120

gaaacacgcc gcgaagctcc cgtaccgcgg tgcacgcagc tcacagcacc gactctccca 180

cgctatcccg aagacgccga cgcgtaagat cacgatecgt cacgtcttgg cgccggaagt 240  
tatcaaaaca agagctccag actttcgtaa gggcggttcag acgcttaccg gaatgccatc 300  
gttccaaaag g 311

<210> 40737  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H6

<400> 40737

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tccttgtttt ctgtaggcgc attaccacat ccatgggtgc tgcaatgggtg ttactggcaa 120  
gtaagacatt cttggaccct gtggctccac tacacaaata tggatgatggc tccatatcaa 180  
atatactgac cactacctgc cattatgagg ctctcacgta tgtaagcttg cctgttcaaa 240  
cactggccaa atgcgccaaa agaatccctg tcttaacctg ggccacaata ttattgaaaa 300  
aaaattttgt tgaaaacaat aactcttttc ctgccgccgt aattatgctt tcgcaatgggt 360  
taatttata 369

<210> 40738  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H8

<400> 40738

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gcaagtgtc atgcagatca tgagcctcgg tatgattgtt acctatgcat taatcatatg 180  
gaagggcttg atagatttca cggggagcga gtcaccactt gtagtggctg ctctaattag 240  
catggagcct gcatttaaaa ggggtgaaat cctgtttttg catatgagca aagatcctat 300  
tcgcacagga gaaat 315

<210> 40739



<211> 62  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H9

<400> 40739

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tc 62

<210> 40740  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A1

<400> 40740

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ctatatggac ccttcaggct gtttgtagag ccataattgc tctgatggcc caccctgaac 120

cagacagccc acttaactgt gattcaggca atctcctgcg gtccggtgat atcagaggct 180

atcaatcaat ggcccgcgtg tatacaaggc tggcggccat gccaaagaaa ggtagccgt 240

agaacatgtg ccaggccaag agcctattgt ccatgcatgg ctacatgttg tcagggtctgc 300

cttgtgctgt ctgtatgaac tttgtggttc ttgattcatg aaataactaac cgttcgtgtg 360

ttgcgtgtgt gtctggggta atgagaggac actcgggttc tc 402

<210> 40741  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A12

<400> 40741

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acgtgcaggc gccgcccatg caggccatgc cgctcccacc gtccttctgc gccagcggcg 180

ccgtacgctt ccctttcagc agctaccccg tgacgcaccc gtattacttc ttcgggcagg 240

ccgcaacagg gtgccatatt ctgaagctgc caccgacgac ggtgactgtg gctcagagcg 300  
 actcagactc ctcgctcggtc gaggatctgt cgccgtcgcc gtcgccgtcg cggcggggcga 360  
 cgtgtcagcg acgagatccg gcacgt 386

<210> 40742

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-A2

<400> 40742

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 ttcaaccact tcggcagggg cctgggtgcag cggatgccaa ggtgccgtcg gggctttcttc 180  
 cactgtgtca acaacgacta cactgactgg ctcatgtacg ccattggcgg cggggacgcg 240  
 ccaaccatca tcagccaggc cgaccgctac atagcaccac caaacatcgc cgccaaaggc 300  
 gtcaccaagc ctttccccga aaaaaggggg tggaagaact ggtgtggga caccgaggac 360  
 gacctgttca tgaacggcgc catcttcaat cgtccggcg gcgcccccaa gcaggtcgac 420  
 accaacgagt gggtaaaggc c 441

<210> 40743

<211> 343

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-A3

<400> 40743

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 gggcgtcttc ttctgtgggt gcgtagcact atctattgta agtgccctcg gacgtttgcc 120  
 agcacccttt cttctagaac taattacagc tactaacatc aaaaaacatc ttcaatgaca 180  
 acctcaactg catgctgcat gcccaaattg ttctctttga ttacacacat actggtgcta 240  
 ttataatcaa ggactctaata gaacaangnn cncatatcc aaatatacct tacaatctaa 300

gtcatatgt catttcaatc ctacaaaatc ttgggaccat tat 343

<210> 40744  
<211> 378  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-034-Q1-K1-A5

<400> 40744

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ttatactgaa caggggctg cctgtggttc aagccaatga aactaacttc tttgccgaag 120  
aatgggctga gtctgactac tactacgacg acgacggcgg catggactat tctgaaaact 180  
cattgccttc ggatttcgtg tctttggtcg atgtatggta caaaggccat gcgctctact 240  
cgaaggctcan atgggggaat tcccaactca gacagtgcc aatggatggt ctacaactac 300  
ccgttccgga tcgacctgtc tcaacactcg gctgaaaaca acgagaacaa caacggagat 360  
gtattcctat ccactgtc 378

<210> 40745  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G8

<400> 40745

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caagagaatg cctgtgagca ggatcgccgt gggcgctccg ggcgagctgt cccaccccca 120  
caccgccaag gccgccgggg ccgagttcat ctccatgtc atcttcgtct tcgccggatc 180  
aggatcgtgc atggccttca gtaagctcac ggacggtggc gccgtcactc ctgccggcct 240  
catcgccgcg tctctggcgc acgccctagc cctcttcgtg gccggctccg ggggtgcca 300  
catctccggc gggcacgtga accctgccgt gaccttccgt gcctttgggg gcggcaacat 360  
caagccttct aaggcccttg tctactgggt ggcccaggtc ctgggcttcg 410

<210> 40746  
<211> 305

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-033-Q1-K1-F10  
 <400> 40746  
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 ctttcttctc tgggtttcaat atttggagct tttgttctgc gttggacgat gatgatttgc 120  
 tcatatatac catcaaactc tgaacaatca tacgctatgt tgattgcaca aagcttccgt 180  
 gagtctgatg cgatcttctg cctctaatacc cgtttttgtt tattegtctt cttccatttt 240  
 tcgtttcttt gttttctgaa ttaatttatt cccgatgcaa taaattagag tctctgatgc 300  
 gcttc 305

<210> 40747  
 <211> 218  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-033-Q1-K1-F12  
 <400> 40747  
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 tggcgaaggt cggcttttgg aagggtacg cgtcatgtcc gttttgtttc tgctcctctg 120  
 tgggaacatc ccatccatga ctgctgccc ttgcattgc tctgcgattc catgcagtac 180  
 atcgatcctt ctctaataat tcaaaggctc tataaaga 218

<210> 40748  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-033-Q1-K1-F2  
 <400> 40748  
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 gccgttccgc ctttgatgaa gctagttgtt gtttctactg cctgaggtga acaaacctta 120  
 tacgacacac tacaggacgc ctacaccatg agacaatact acaagatgtg tgtgaacgga 180  
 ctggacatat agtcagacag ccagaaggcg aagtacttcc acataggcac gcatgtcttg 240

aacatcagga accacaaggg atcccagatg accaagctca tgcacagtaa tgaccgcatc 300  
cacgacgaca ataatgcgcg cacgtattat caccgctatt acgtgcacct gcaggaggac 360  
gaagcaca 368

<210> 40749  
<211> 250  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F3

<400> 40749

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tgcgacagcg ctgaggctga gggacacggt atatgtgagc ttcacagac agcgacccgc 120  
caccgccaca cttggacgga agccgagaag agtgtctggc ccggagaccg gacgataatt 180  
gattcgtagc acattcggtt atggtggaca caggtgacat ggagcggatc ttcaagtcgg 240  
tcgacaccaa 250

<210> 40750  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F4

<400> 40750

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atctgtacgg caacatagtg ctctccggtg gcaccaccat gttgcctgag gtcgctgaca 120  
ggatgagcaa ggtgatcact gccctggctc ccagcagcat gaagatcaag gtggacgctc 180  
ctccagagag gaagtacaga gtctggatcg gaggatccat tctggcatcc gtaaggacct 240  
tgcagcagat gtggatcggc acatccgagt acgacgagtc cgggccatgc atcgtaacaca 300  
ggaaatgctt ttaattatct gggccaata catgcataac gtggcggaag ccgtaccggc 360  
gc 362

<210> 40751  
<211> 414

<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F5

<400> 40751

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ctcaactcca agttctttcca catgaacatg taccagtgcg agaacatgct gatcaaggac 120  
gtgaccgtga cggcgcccgg ggacagcccc aacacggatg gcatccacat gggcgactca 180  
tccgggatca ccatcaccaa caccgtcatt ggcgtcggcg acgactgcat ctccatcggc 240  
cctgggacct ccaaggtgaa catcactggc gtgacctgcg gccccggcca cggcatcagc 300  
atcggcagcc tagggcggta caaggacgag aaggacgtca cggacatcaa cgtcaaggat 360  
tgcactctta agaagacaat gttcggcgtc cgcacatcaagg cgtacgagga cgcc 414

<210> 40752  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F6

<400> 40752

attttccaaa gaaaagagga gagaaaagcc aagttgcagc aacatttcgc tcagcttgca 60  
agaatggttg gacctgcgaa ctctatgatc cccactggat atccacaagt ttattttgcc 120  
catccaagta cccatatccc tcaaggtcct ccaagacaag gttttgtgta tccacccatg 180  
ggccttagtc atgaatggag accaagtatg ttccccccag caccaaactt ccagcaaata 240  
cattcaccgg tgatgccaaa ttcgccaagg cattacagaa gcaaccgagg aaggatgggt 300  
gggaatatga tgctcttccc tcatgcagtt catacaatga actatatgac acattcacag 360  
ccagctaaag aattcatgtc ttgacctcga cagcgattca atcatccgaa gtactttctca 420  
aatg 424

<210> 40753  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F7

<400> 40753

tttatgatca atggatctct aaaacagttt ctgaggaaaa aagacaggac aattgatcgc 60  
cggaagagag taatattagc catggatgct gcatttggca tggagtatctt gcatgggaag 120  
aatatagtcc attttgacct gaaatgtgag aatctactgg tgaacatgag ggatccgcag 180  
cgaccaatctt gcaagatcgg tgatcttggga ctgtcaaagg ttaaacagca taccttggta 240  
tctggtggtg ttag 254

<210> 40754

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F9

<400> 40754

ccttacgcac gcacgtacca attcccaatt cgacgcacgc cccacgcgtc c 51

<210> 40755

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G10

<400> 40755

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agaagctttt aaggggctgg gcaacccttt gagaattatt gaaggggttg gggcttcctc 120  
cggcccaaaa tt 132

<210> 40756

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G12

<400> 40756

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tgagcttgca atcaaacatg caggactgtc tgagagacta gctcttgac aaccaaaggg 120

tgccccgtctt tatggacctt cgggtcacagg atcgacattg ttggcacgtg cgggttgctca 180  
 tgacactgac tgcaccttaa tcagggtgtc tgcttctgag ttggttcat 229

<210> 40757  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G3

<400> 40757

cccacgcgtc cgccgagaga taggcgtctt cgtactcgcc tacctccgcg gctcaaacct 60  
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 gcatttcgat ccacatcggc caggccggta tccaggctcg aaacgcgtgc tgggagctgt 180  
 actgccttga gcatggcatt caggctgacg gtcagatgcc cgggtgacaag accattgggg 240  
 gaagtgatga tgctttcaac aacttcttca atgagactgg tgcttggaag gacgttcccc 300  
 gggctggttt tgggtggcct ggacccaatg gcaatcatta agggagaacc ggcaccttac 360  
 ggcagggttt tcaaccttag cagggttatta atgggaagga agattcaacc cacaactttg 420  
 gccgtgggca c 431

<210> 40758  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G4

<400> 40758

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 caggagcgag atggagatga agaggatcct ctctgccgtc ctctgctgca tcgcccctc 180  
 ggccaccgca gtgctggcct ccaccgaggc cgccgccgcg ggcgccccaa ctgcctccga 240  
 gtcgtccgcc gaggtcccc ctggcgctgg cgtggcgct gccgcttgcg ccggcggtt 300  
 gggggccttc ggcagcagcg gcgcgcccgg cctcggcggc cggcccggcg ggcttctttt 360  
 ctctctctt ggcttctaac ttcaattaac ctgttcttct cgtccgtccc cccgcttggc 420



caacaatgga

430

<210> 40759  
<211> 413  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-033-Q1-K1-G5  
  
<400> 40759

gccggcgctcg gctccgccat cgagtagcc gtctgcgcc tcaaggtgga ggtcatcgtg 60  
gtcataggcc acagccgctg cggcgggcatc aaggcgctcc tctccctcga ggacggcgcg 120  
cccgacaagt tccacttcgt ggaggaatgg gtcagggctg gcgccccggc gaagtccaag 180  
gtgctggccg accacgcctc ggcgcctttc gaagaccaat gctccatcct ggagaaggag 240  
gccgtcaacg tgtcccttga aaacctaagg tcctaccctg tcgtcaagga agggcttgaa 300  
aaagggaccc tcaagctggg cggcggccat tacaacttcg tcaatggaaa gttcgagaca 360  
tggaaccct aagtggcctt acgtaccaa tccgccaac cggcctaatt tgc 413

<210> 40760  
<211> 432  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-033-Q1-K1-E9  
  
<400> 40760

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tgctaccctg cctctcttcc tcggtagagg tgtatgggg ccatcaacc ccatggcaaa 120  
tgggtaacac gacttggtggg taaagatgcg caacctctac agagtgtaaa actggtatat 180  
cagacatgct cacgtgcatg agcgactcag acactcacat ggttaactta tagaattaaa 240  
ctcaaattgt catttgcatg gcattgtggg tggtattatc aattgtgatc tcatatttaa 300  
ttgggttggt atctacttat accaggtaac tgctaataca attttgacga aactaaaag 360  
caatgctcag cttaaccat ctcttttggg aagccttaca cttacatgag tccccacctt 420  
ttttgagttc at 432

<210> 40761  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G7

<400> 40761

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gacgaggaga gggacttget cgtcacctgt cgcgtcccg cgtcacgcgg gaccatcgcg 120  
ctcgtccggc cgagctgcac ctaccgcgac gcgccacca cggagatggg gcgggtgggg 180  
ggcgaccggg tgacgttget ccgcgcggcg agcccggtga gcgcggcgat gtccctgcag 240  
gtggagcgcg agtggcaccg cgtccacgcc accgaggaca tggccgcggc gcaggccgcc 300  
gcagaggagc acgactacgc ccgcgcggct tcgatcctcg aggcccgccg ccggctgctg 360  
gagtcgtgcg cgtggctgtc ctccgaccag c 391

<210> 40762  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D3

<400> 40762

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atcttgata tgtgtcgtgc atttgaccgt gtctttaaa agcacttgga cggagggcgg 120  
ccaggtggag atcggattta tgggtgtctt gacaaccagt tacctgcagc actgaaaaag 180  
cttccatttg accggcatct ttcaatgcaa aatgttcgta aagttatttc agaagctgat 240  
ggttaccagc cccacttgat tgcccctgag caaggataca gaaggcttat agatagttct 300  
ttaagctact ttaaggtcc agctgaagcg tctgttgatg ccgtccattt ggtcttaaaa 360  
gagcttgctt ggagatcgat tgcagcaaca gaagaattga agcgattttc aacacttcaa 420  
tcggata 427

<210> 40763  
<211> 104  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D4

<400> 40763

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atcgacattg tctctgttga atctgaccgt gtctctatag agca 104

<210> 40764

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D5

<400> 40764

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gcaggtctga caggatgtcg tggcagacat acgtcgatga gcacctgatg tgcgagatcg 120

agggccacca cctgacctcc gctgccatag tcggccacga cggcgccggtt tgggcccaga 180

gcaccgcatt cccacagttc aagacagagg agatgaccaa catcatgaag gacttcgacg 240

agccccgggtt ccttgccccg accggcctct tcctcgcccc caccaagtac atggtcaccc 300

aaggcgagcc cggcgctgtc atccgcggga agaagggatc tggaggcata actgtgaaga 360

agacagggca agcgatggtg gtcggcatct acgacgagcc catgaccccc ggccagtga 420

acatggtggt 430

<210> 40765

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D6

<400> 40765

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tcatggtcgt gggcgccgtc cttgcggcgc tcgtcgccgg cgggtcgtgc gggccccga 120

aggtgccacc cggccccaac atcaccacca actacaacgg caagtggctc accgctaggg 180

ccacctggtg cggtcagccc aacggtgccg gcgctcctga caacggcggt gcgtgcggca 240

tcaagaacgt gaacctgcca ccctacagcg gcatgacggc gtgcggcaac gtccccatct 300

tcaaggaccg caagggctgc ggcttatgct acgaggtgag atgcaaggaa aaacctg 357

<210> 40766  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D7

<400> 40766

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ttcaatatca tcatgcgcaa atctgttggg caatcattat ggatgcagga actggcttct 120  
cagctcaagt atatgagcta tcttcacact ttcttcataa ggagtggatc atggaacaat 180  
gggataaaag tttctacatc agttctgttg ctggctccaa caatggaagt tctattgtag 240  
tgatgtcaaa aggcacacca tatacacagt aatcttataa 280

<210> 40767  
<211> 308  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D8

<400> 40767

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tgcgagggct tctgatggcc ctgcagccg tcttttcttg ctagtgccca gctttattgc 180  
agatccaggc ctctgacct cgtcttcttt cacctctcca acatgaaggt caacaccaag 240  
atcaagctgg agccgggtcat ggcgccgtcg tcgtccctgc cgcggagcgc cagcgagcta 300  
cccgaccc 308

<210> 40768  
<211> 436  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-033-Q1-K1-D9

<400> 40768

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ccgacgagcc cgggacatct gcatgccctg aggcgaaatt ctactgcaag aatgcaggcc 120  
aactccagt cacgatcttc tcgtcacgag tgaatgacgg catttgtgat tgctgtgatg 180  
ggagtgatga atatgacagc aatgtcacct gtaagaacac ttgctgggag gctggaaagg 240  
tggcaaggga gaaattgaag aagaaaattg ctacatacaa aaatgggtgtt gttattcgga 300  
aacaggaagt tgaaagggca aaagaggctt ttgctaaaga tgaagcagat ttagcaaaat 360  
tgaagggcga agagaaaatg ctccaaggac ttgttgataa actcaaagag canaagaaat 420  
taatagagaa tgcaga 436

<210> 40769

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E1

<400> 40769

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gccaaagctca cgacggacac caacacgcac gtctccacgc gcgtcatggg caccttcggc 120  
tacctggcgc cggagtacgc gtccagcggc aagctcacgg acaggtcgga cgtcttctcc 180  
ttcggcgtca tgctgctgga gctgctcacg gggcgccgcc ccatcgatac caccaactac 240  
atggaggaca gcctcgtgga ctgggcgcgc ccgctgctga gcgccgcgct ggcgggggga 300  
gacgggcttc gccgagctcg t 321

<210> 40770

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-033-Q1-K1-E10

<400> 40770

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ccgtggggcg cgctcatcgc gcgacgccgg acaacaagct ccgcgctatg gcgttcgcgt 120

tcgacggcgc ggcggcgccg gaccggggcc ggtgccccgc cgtcgacaag cccttctgcg 180  
 agacctacgc caagacggag aaggccttca gcggaaccat cgcctacggg gacacgccc 240  
 agagcaagct ggggatcacg gacgccgtgc tcaagctgag gctcgccacc gacgccaaca 300  
 tcaacaaggc ctacgaggag ggggacaagg acaagatcgc aaaaatcctt gctgcatacg 360  
 gccaggcgga cgacggggtc gctgcgggcc cgcctcccgga gaagctcana gtcattggaga 420

<210> 40771  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E11

<400> 40771

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 cgagggcccg agccgactac gactacctca tcaaactgct cctcatcggt gacagcggag 120  
 ttggaaaaag ttgtctctg ttacggttct cagatggatc attcaccact agctttatta 180  
 ccactattgg cattgacttc aagataagga ctgtcgagtt ggatggcaaa cggattaagt 240  
 tgcacatctg ggacactgca ggccaagaac gtttccgcac gattactact gcttactaca 300  
 ggggagcaat gggcatcttg cttgcgtacg atgtcacaga cgagtcattt ttcaataaca 360  
 taagaaattg gatcagaaac attgagcaac atgcttcgga taacgtgaac aaaattctgg 420  
 tggggaat 428

<210> 40772  
 <211> 167  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E12

<400> 40772

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 atagggcccg agcacggtac gattacctca tgcaactgat actgatacga gatagctgag 120  
 tcagacatgg gacgaaaatg ataaagctct gagagagcga ttaacac 167

<210> 40773  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E2

<400> 40773

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gttcaagtgc agacaccttc cgtgcagagc aagcagcaga ctcgtgttag acacactgtt 120  
gatcgacaca gtacatgctg acagccttct ggcaactgatt cattcatgca ccggttcagt 180  
cctgggttga atgttcatga gtcataaacc aaacacgttt tgggcatata gctatgttcg 240  
ccatgggtact ctttacgagg gtcttgagtt caccgggtgtt gatgccagaa aagacaatga 300  
taacaatgat attcagattt aggcattctga gaaaccagat actaagatat tgacaggaac 360  
atgatggctc tgtggacatg acacgaatgt gattaatggg actgaaacat gttctgat 418

<210> 40774  
<211> 243  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E3

<400> 40774

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tagtaggtgg tgtactctag ctagcacgaa gtggatagat catgcaaggg cgcagtcgac 120  
tacgggtctc ctgacatcag tgctcctacgg gtatctcaag gaccatgaaa acatcgtata 180  
ctgctgcaat catgttgtcg tacttcggaa ggacttccat ggtgtcaaga atgccaaggg 240  
ctt 243

<210> 40775  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E4

<400> 40775

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aaccttcagg tgtgccgatg tgacatctaa cgacttgaag attgaagata actctgggtga 120  
 tctgatatatt tcaaactggc tattaatgta tctttcagat gaggaggtcc aaaagcttgt 180  
 ggggaaaatg gttaaagtgt taaaggtcgg aggccatatt ttcttttagag aatcatgttt 240  
 tcaccaatct ggagattcca aaaggaaggt gaaccaaca cactatcgag aaccaaggtt 300  
 ttataccaag gtatttaaag agggccattc atttgatcaa gatggaagtt cgtttgaact 360  
 ttttctagtg accttgtaat gcatttgggc ttatgggtcaa aaccagaaga attaaaaccc 420  
 gatatgc 427

<210> 40776  
 <211> 206  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E5

<400> 40776

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 taaaagtaag tgaattaggc gaggggttaa ttatttattt tgtcaaaact tatgtgagtc 180  
 atgaaatggt gcatcatgct gagcct 206

<210> 40777  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E6

<400> 40777

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 gtacttattg agaaagatga aagcctggat aagtttgacc cagcaaaact gaagaaactt 180  
 cggccaagtt tcaaggagaa tgggtggtacc cgtaccactt gaaatgcctc tagtataaat 240  
 gatggggcgg ctgcattaag tttggtgagt tggccaaaag gttaagaact tggccttgaa 300  
 gttctttgaa ggatccaaag attttccaaa tccagttaag gttccgaacc tgtaaacacc 360



aacccaagac ttggcaatcc caaagggtttt ttaaatagcct gatttaaagt catccaatgt 420  
ggattttt 427

<210> 40778  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E7

<400> 40778

gaagaacaag aagtaccttg cagttgctgc gccagatgag ggtgcccaga cccttctggt 60  
tcaggccatt gaggtttttg gtgggaagtg caaccctgag gcgctgaagg aggttcccgt 120  
tgtcctcaaa gccctctacg atggagatat cctggacgag gaaaccatcg tggactggta 180  
caatgatgct gtcgcagctg ggaaggactc ccagggttgc aagaatgcca agccgttcgt 240  
cgagtggctc cagagtgccg agtctgatga agatgggtgac gacgagtga gaagccacgc 300  
tgctctactg ctaatggcca aacttgataa tattatttca ataagtttgt tttgcttgcc 360  
tggtgtccgc gtttaaaact gttaattgtc gtgtggcgca gcatactctt at 412

<210> 40779  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D12

<400> 40779

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taaagggtgg agcacctgca acagtggata aacccaaacg acgaacacca gcatttacag 120  
gaagaagttc aggacaagat aaatctcatc gttcaagaag catgtccact agcccacatc 180  
gtccacgtgt tcgtggaagg tctccagcct tcaatatgtt aacttctgcc tttgagaaca 240  
cgagcaatac caggaacctt tccaccctc ccattgttgt gagaaagcct ttctcaaaat 300  
ctggatgtcc tgaacactca aggggtgtcac ccaaaaaatc agctatcagt tccctcacca 360  
ggtcttttga aggtcacatg aaaagtacaa taccaaattc agtaaaagtg agccctgagc 420  
taaagaaggc gacacaggaa gaag 444

<210> 40780  
<211> 303  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E8

<400> 40780

gatagggatc ttgacacgcc tatcacagag gctgggttta ctggcattgg tgttggtgca 60  
gcttatcatg gacctcggcc tatgtataga gttcatgaca tttaatttct cgatgcaagc 120  
tattgatcat atcattaatt cagctgccaa gtcaaattat atgtcagctg gtcagatata 180  
tgatcctatt gatttttagag gaccaaacgg agctgctgct ggagatgggtg ctcaaacactt 240  
acagcgatat gcaacttggg ttggacaagt tccaggactt aaaggtccta aaccatactc 300  
ttc 303

<210> 40781  
<211> 143  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B6

<400> 40781

cgttcgcgac ggggtgcggcc agtgccggagc ttcggctttg tgcatacaac tccattcaat 60  
agccatggcc acaaagtgtt tgtccaaagc ccattgatac ccggtcatgg cgatggatct 120  
aatgtgccag tcatggatga cac 143

<210> 40782  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-033-Q1-K1-B7

<400> 40782

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caccgcaagg ttctccgga caacatccag ggcatcacga agccggcgat ccggaggctg 120

gcgaggaggg gcggcgtgaa ggcgatctcg gggctcatct acgaggagac ccgcggcgtg 180  
 ctcaagatct tctcagagaa cgtcatccgc gacgccgtca cctacacgga gcacgcccgc 240  
 cgcaagaccg tcaccgccat ggacgtcgtc tacgccctca agcgccaggg tcgcaccctc 300  
 tacggattcg gcggctgaga ggcgctaccg ncgctgggtg ccgtggcaaa agtcttgggg 360  
 cgcggtcaag aaatcgagag tattctggat gacgtgctta ggttcgt 407

<210> 40783  
 <211> 138  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B8

<400> 40783

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 atgcgtagcc aagcttcacc gtatggttct acgcgacaac atccatggca tcacgaaccg 120  
 gcagatgctc aggctgat 138

<210> 40784  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B9

<400> 40784

ggcttctact cccctctta ccaagtcctc ttcgggtag ggttacttaa ggttttgtgg 60  
 aggggagatg gcggcggctg atgtggagta ccgttgcttc gtcggcgggc ttgcctgggc 120  
 caccagcaac gactcgttg agaatgcctt cgctcctac ggcgagatcc tcgactccaa 180  
 ggtcatcacc gaccgggaga cggggagggtc tcgcggttc ggcttcgtta ccttctccta 240  
 cgagaactcc atgctcgacg ctatcg 266

<210> 40785  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C10

<400> 40785

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cattacattt catggcatat gagcgggtacc ggtgttggat tttgaataac tgtccctcac 120  
tggaacagg gccttttagta gatcttttag ccggttcagc atcaggggga actgctgtat 180  
tgtgtactta tcccttggat ttggcccgga ctaagcttgc ctttcaggtc aatagttcag 240  
atgaactcag cagagctttg aaaaggggaa gtccccagcc agcatatgga ggaatcattg 300  
atgtcttttag atgtgtttac tcagaagggt gagtgcgggc tctttaccga ggtgtaggtc 360  
caacactcat ggggatactt ccttatgctg gtcttaagtt ctacatatat gaagggtga 420  
aggtcat 427

<210> 40786

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C11

<400> 40786

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tcgacgacag ctacaactga agtgcgcgct cgatcgatta caccctgact gtagagaccg 120  
tgcagtggca gaacacacat cgaggctgag ctgatcaagg agcatgctca actttgtctg 180  
ctccttgatc tgcctgcaga acgtcaagta taatggtggc gcacctgtat gatcacttaa 240  
gtgcgaaact atcagaggat gcacttta 268

<210> 40787

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C3

<400> 40787

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tgttgatgat gttgctcggt ccaacttcgt tttcagtaat aataacaaca aagcgaagac 120  
cctgctacat accctatttg cttgagcgga tctcgctccga gccacaagat accacatggt 180

gcgctgggaa tattcagtta ctatgacccg ctttagttga cctatTTTTT tggggggcgc 240  
 ggttcgatca ttctggctgt agcgtgaatc gcatggacaa cagaatgcac ttgctaagca 300  
 aatattgctc ttatgcatat atttgaagaa ccatgtacaa gcccgacttt cgcaaagtaa 360  
 tgctggaaat tgagttataa atcacacgac atactttaaa ccatctgct 409

<210> 40788  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C4

<400> 40788

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 ggaccgtgct cctcgacgcc gcccgacatg ggggacgcc cctctggccg cggccacgtc 120  
 gtctaccctc cccgctccgc cgaggacatc ttcaaggact accgcgcccg ccggtccgcc 180  
 atcctccgog ccctcactca cgaggtcgaa gaattctacg cgcagtgcga tccagacaag 240  
 gagaacctgt gcctgtacgg ctacgccaac gaagcgtggg aagtggcgct gccgacagaa 300  
 gaagtgccca cggagctgcc ggagcc 326

<210> 40789  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C5

<400> 40789

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 tgatgttatt ggtgactcac gatgccccat atcagatact tgggtggcaga ctgaaactgg 180  
 gggattcatg atcactcctt tacctggtgc ttggcctcaa aagccaggat cagcaacggt 240  
 tcctttcttc ggtgtgcagc cagtcattgt tgacgagaaa ggtcgagaaa tggaaggaga 300  
 atgcagtgga tatctttgca taaagaaatc atggcctggg gctttccgga ctctgtatgg 360  
 agataaagag agatatgaga cgacatactt caaacattt gctggatatt atttctcggg 420

cgatggctg

429

<210> 40790  
<211> 413  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-033-Q1-K1-C6  
  
<400> 40790

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catcgagac cggctcgacc tcaagtggta cgccagcgcg cggggcgctc gcacggcgctg 120  
gcgctgcgcg ctcccgcgcg cgtcgccgcg gctcctcgctg gtcgctgacg acgctcgatg 180  
ttgcccctac gctgcctccc tccccacgcg gaggtcattc gagctcaccg ccatcgctctc 240  
gggaagccgc tgcattggct ccagcaacgg ctggatcggg ctcttcggcg tcctcttcaa 300  
cggaagaac gtcttcgggc ttcttaaacc catcggcgtg tgggagaacc ttcttcggcg 360  
ggttgctcaa taaaagccgt tgggtttcca aggccgcttt aaccgaagc ccg 413

<210> 40791  
<211> 434  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-033-Q1-K1-C9  
  
<400> 40791

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ccgcatccag ggatggagat gaagaagatc gcctgcgcgc tcctcatcgc cgcttcggcc 120  
accgtggcgc tggccgcgga ggcgcggct cgtctccca ccagcggtc ctccgcggtc 180  
gcaccgcga tcgtcggggc cgacgtggcc tccttcttcg cgtactacat tcaactgagcc 240  
gccggacgag gagccggagc cggagggag agaccaaggt ggggggagag acttggtgc 300  
gctgcgctgc tctgctgctc ccgcgcattc ccgatgcgtg ggcgtgctct gattgggcac 360  
ggcgggtggc gtggcacacc ttcgtcttcc ttatgaatgt tttttttcc tttctctttc 420  
tacttgattt tcat 434

<210> 40792

<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D1

<400> 40792

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attgtattgg actctggtga tgggtgtcagc cacacagtgc caatctatga aggttatgcc 120  
cttcctcatg ccatactgcg ccttgacctt gctgggcgtg acctgactga cagcctgatg 180  
aagatcctca ctgagagagg ttactccttc accacctctg ctgaacgcga aattgtaaga 240  
gacatcaagg aaaagcttgc atatgtggct cttgaatacg accaggagct cgagaatgcc 300  
aagagcagct catctgtgga gaagagctac gagctgcctg atgggtcaagt gatcaccatt 360  
ggggcagaaa ggttcagatg ccctgaggtc ctctttcagc cttccttcat tggatatgga 420  
gtccttgcca 430

<210> 40793  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B5

<400> 40793

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gcaggaagag agaaaagcgg aagagcttcg tcgacagctc gtgtacagag tcgctctgtc 120  
ctcgatagat ggcttgggag ggtcgtacag gcgtcccaat ggtgtcatga ccttacccca 180  
cagaacttgg gcagtcgtgc ggaactttct cgacgacgtc gaggaaccac cggacttccg 240  
ccctgcgccg tggtcagtgc tgatgctcgc gtggctcacc cgaggttacg agttgactga 300  
acatcaccct ggttactggg atctcaagtg ccaagcgcgt tgagcccttg atccactctt 360  
ggtagccaat aatgatcttt attatcacta ttca 394

<210> 40794  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D11

<400> 40794

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gagcgggtggg cgtcgggtgac cgttctggga gtgggagagg gcgaacacgg acgacgacaa 120  
gggccgggga agaagaagat ggggtggctgt ccgggggatgg ggagcaagag caagtcgttg 180  
ttctgcgggg ccttcaatct cttctccaga tagccggcgc cgccgcttgt ttttgttcct 240  
actgccgtga caaaccttct tgtgatttct ttatttgcct ttttgctaga agttcttatt 300  
ttcatgtgta aattttgtac cattgccgtg ggtagaaaa tcacattttt cc 352

<210> 40795

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H5

<400> 40795

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cacatagact aggacttatt ccacttgatg cagatccaag actctttgaa tatactcat 120  
aaaacgatgt cccaaatgaa aggaatacta ttgtttataa actgcacgtt tcttgtccaa 180  
agaattctca acgaattaca gtgaaatcta gtgaactaga gtggttacca gaaggtagcc 240  
aattaagcat gtcagcccct gcacagtctg gagacaaaca gaagactttc acttccttca 300  
gtcaaagcca aaaggagatc ttagaaaagc ctcttggtgt tggacaagag tttttttaa 360  
aattttttt 369

<210> 40796

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A1

<400> 40796

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gccgcagcat ggcatcatcg gccgcgtctt tgggtctagc cctcgcgcta gtggcggaca 120



ccgccccaca ggtagcggag gcaaagaaga agagagcggc ggagagcggc gaggcggcgg 180

<210> 40797  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A10

<400> 40797

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gacctgcgga tctcatgcaa gctcaggatg gcggccttgc actgtgcagg aggccgactg 120  
tctcacctag cacagctgcc tgactctgac acgcgctaac cgccctggct agtaccagca 180  
tgcatatcaa cgtggctgct actacaaatc ggacgtacag agtctgcata gcctgaacca 240  
tactggcatg gatcagaca ctgcaccaga ggtgcatagc aacagttcag tacaagaact 300  
ctggcccatc catggcgcaa agcaaaggtt c 331

<210> 40798  
<211> 251  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A12

<400> 40798

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ccattgtaat gaagtgcacg gtcgaagcac ctgcgtccac tgacaggctg gaaggggacg 180  
aaacaccaat ataggtctgc gtttgttgat cacttacaga gatcttactc ctgacgtagc 240  
tttgcacat g 251

<210> 40799  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A2

<400> 40799

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acagatgcag tcaaacatct gataccgatt cttgagcttt gtgatggacc tctggttttt 120  
caaatacata gtgaggctct caatgctttg ttcaaccttt gcaagattaa taaaagaaga 180  
caggaacagg ctgctgaaaa tggaatcatt cctcacttga tgaatcttgt catgtcag 238

<210> 40800  
<211> 230  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A4

<400> 40800

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agtccaccat gcagtcgac aaggaggctc tgcgcggcca ctccgacgcc gacatcttgg 120  
acaccctccg cgagtctaac atggacccca acgagacggc gcagaagctg ctgaatcaag 180  
atccatatca cgaagtgaaa agaaaaatgg acaggaagaa agagagtgtc 230

<210> 40801  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A5

<400> 40801

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cttgacaccg gggaccttcc gcagatcgac ggcctttcag aagtagcata ctacccaacc 120  
gccaccgatg aggccaccat agggcaattc aaccagatgg ggcttccgac gaccttagct 180  
gaacagatgc ttccaatgca gatgaacagc agtgcacccg ccttgatggc cctcacttca 240  
gactaccatg aggggttcac aagggccgta ggttgaaggg tcaagggtct ggatggaact 300  
atggatcaat tggaactgg agccattctt tc 332

<210> 40802  
<211> 406  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-033-Q1-K1-A6

<400> 40802

gagatacccg atcgccaccg ccgaccggac tcccctcaaa ggcggccaca gcacagcgag 60  
catgggagac cggcatcagc atgggcctgg cagcggcgtg gaggaccgg cgacgtgct 120  
gcggcgggtg cagaccgcg cgcceaactc gacgcaggtg gtggggttcc tgacgtgct 180  
cgtctctggc gccgtgctgc tgetgctgac gggggtgacg ctgacgggcg ccgtggtggc 240  
gctcgtcttc ctgggcccc a tcgctgctc caccagcccc atctgggtgc ccgtcgccgt 300  
cgtgatctcc gncatcgtcg ccgncgcgt ctcgcctgc gccttcgccg gggcggggt 360  
tcccgtggcc acctggatgg accggtactt tacgggcccg caaccc 406

<210> 40803  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A8

<400> 40803

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ggtgccgtcg ctgcgcggca cgcagacggt gacgcgacgg ctgaagaacg tcggccgtcc 120  
ggccaagtac ctgcgctcct ggcgcgcgcc ggttgggatc accatggagg tgaagccgag 180  
ggtgcttgag tttagcaagg tcggtgagga aaaggagttc aaggtgacgg tgacgtcgca 240  
gcaagacaag ctcgggatgg gctacgtctt ttggaggctc ggctggacag acgggaccca 300  
ctatgtcaga agccccgtcg tcgtcaacgg ccttgcatga tctatcccag ttggggctac 360  
ttgaagtccc taactacttc tactacctgg aggccttggg gaattttggg gcc 413

<210> 40804  
<211> 257  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A9

<400> 40804

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gaagttgcta catacattaa tggggcgggt actacactag catgaagtgc tgacatgcct 120  
 tcattgccga acatagtccg aatctcatag actttctcaa gccattcaac caacaacctt 180  
 ttcaaaggca gatgtatcgc actcctcaag tcaagatctc ttcgaagcga gctacagtat 240  
 gtcacatcaacg gtctagc 257

<210> 40805  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B1

<400> 40805

cccaggggtcc aacgcgcggc tcttggccac ggtggttgcc ggtgcgggtcc tagccgcgga 60  
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 caggtccagc aaggcccttg cagaggaaac agacaaaccc aagaaatgtt gaataatatc 180  
 aagttgttgt ttataaccc ttgggagaa cggagcgaaa aggggtccac aggatgattc 240  
 cttgcggcat gctcgggtgg aaagggaaaa aaacccttct ggcgaaaaga gagaattcag 300  
 tcgactcgtc atatttacca agcggtgaga cctgttggtg atcctggagt atgacctatt 360  
 taattcggtg atgttgctcg tataggtcct ctacactaca ctcggtgacc ccg 413

<210> 40806  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-033-Q1-K1-B10

<400> 40806

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 atgccgtacc aggacgcgga ccacaggctc cgcgcgctgg tcgggagcgt cgagggttc 120  
 ggccgccacg ccatcggggg cctctacgga gccatccacc gcgtcacgtc gctccaagac 180  
 gacgggcccc ggagtctgag ggaggcgtgc cgcgcgagg agcccctatg gatcgtcttc 240  
 gaggtgtccg gcaccatcca cctccactcc tacctccgcg tctcctcgta caagaccatc 300

gacggggcgcg gncagcgcgt agtgctcacc gggcaggggc t

341

<210> 40807  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B11

<400> 40807

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accagcacct gttatcagcc tgatctgcgt ctgcattcag cagcatgcgt ccgtacatcg 120  
tcgtcggagt cagctcatca gcgtgccagc accagtatac acacgggact agctcgttcg 180  
tggttactac gtttggggcc tcgcgttcg tgattagagc tatctttgat gcatgtgacg 240  
gcagtttaag ttagagaaga ttatcttggt cattgacttt aaggctcgcgt gcagtttgtg 300  
ccagaaaatg tgtaactgcg tatgcatgca actatgcaag tacagtgttc aaaataaa 358

<210> 40808  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B12

<400> 40808

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ccatttcacg agaaagcgcg attactgcta aacaagagcc tatatccagg tctataccaa 120  
tcggatcgat cgcgaggacc ttatcatggg acgacgcttc ccaagaggct ctttcgcagt 180  
gttctaccaa aggagacagc aaccacgagc aggagcagca cgagttcgtc gagaagacgc 240  
tggcatccgc tggcttctgc aacgagaaga cccaggacat ctttgcccgg tggcattcgc 300  
tcgaccggcc cttggacccc gccgtggtcg agcagctgct ggaacgcaag gtggaggacg 360  
ccaagtgcg agagaggcgg tcgaaccaga ggctcctaata cgactctgtc aacgcc 416

<210> 40809  
<211> 268  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3075-033-Q1-K1-B2

<400> 40809

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agttgaaagg gcagttgttt cctgtgaagg tgatctagaa agggccgagg aggccttgaa 120  
gacacacaag caagaatcaa ctgcaatccc accaaagcct gaggggtctg gctattcaag 180  
tggttgctt aataagcccc aagttgtact tgcacagaac cctgcaaggc cttaaacaaa 240  
tggattatca tcagtaggat ctcatcag 268

<210> 40810

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B3

<400> 40810

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caccgcaagg ttctccgcga caacatccag ggcacacga agccggcgat ccggaggctg 120  
gcgaggaggg gcggcgtgaa gcgcatctcg gggctcatct acgaggagac ccgcggcgtg 180  
ctcaagatct tcctcgagaa cgtcatccgc gacgccgtca cctacacgga gcacgcccgc 240  
cgcaagaccg tcaccgacat ggacgtcgtc tacgccctca agcgccaggg tcgcaccctc 300  
tacggattcg gcggctgaga ggcgcta 327

<210> 40811

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B4

<400> 40811

gccatggcac tgttcaagtg catgtgcac ttcttagtct cgcttctact cgccctcacc 60  
ttcaccaatg cccaggaaga atcttcacat cggactctcc caccgttccc ctgcatccca 120  
ggccagccac ggcccccgcg gttgccacct tgcccgcggg caccaaccga gtgctacacg 180  
tcgctgtcgg gaatgatgcc gtgcgcggac ttctcaacc acaacgag 228

<210> 40812  
<211> 165  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E9

<400> 40812

aaaataattc tcagatTTTTg gataacgatac tgctagacaa acgtgtcaag aagaaagttg 60  
gcgggtgtaa actcagcctt ggggtgggttg ccagatacag tatttgattc tctaattgat 120  
tcatgtatgg atgttgctga tctcttttat gaacaaaacg tgctg 165

<210> 40813  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F2

<400> 40813

aatgaagagc cgcagcatgg catcatcggc cgcgctcttg gtgctagccc tcgcgctagg 60  
ggcggccacc gcccacagg tagcggaggc aaagaagaag agagcggcgg agagcggcga 120  
ggcggcggag gcgaagaaga tccaggacga cttctgctcg acgctgtgcg agggcaagaa 180  
ggggacggac ctggctgtgt gcaaggagtc ctgcgcgctc tcccagcagt ccaacctggt 240  
gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca tcacggcgcc 300  
ggccatgaag gtctgccagg aggagtgcga caaggcgtac gttggggttg gggaaaaaaaa 360  
aaaaaatggg gggg 374

<210> 40814  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F3

<400> 40814

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gcggcctaga ggtggtggag catgcttgtg gaatgggaac actgcaaagtg ggcgaatatg 120

tatcaaatgt ttctaattggg attgacacct tcagcattcg ggagccactt ggtgtttgcg 180  
 ctgggatatg cccatttaaat tttcctgcta tgattcccct atggatgttt cccatagcag 240  
 ttacgtgtgg caatactttt gttcttaagc catcggaaaa ggacccaggg gctgctatga 300  
 tgcttgcgga gctagcaatg gaagctggtt tgcctaaggg tgtctttttt ggggg 355

<210> 40815  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F4

<400> 40815

cactccccta ccgccacccc taaaactagc cccattccct taccagcgtc cgatcacact 60  
 gctgggtccc acgcttgat ggattccgtc ggtacaaatc ggcccccgct gcgccccgtt 120  
 gccgccgag ctactcgacg cagcgcgctc ctgcgcccc ctagccacct cgggctcggc 180  
 aatcgttttg cggagactaa gcttgggata gcgtcagggt gtggaggagg aggagggtat 240  
 tttggaaagg tacagggatt tgatgccttg cggagtacca cgacgaaagt tcagagcggg 300  
 aaggcgggga ggagtgtgac caaggaaatg ggacacactt 340

<210> 40816  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F8

<400> 40816

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 tcatcgcggc gacgccggac aacaagctcc gcgctatggc gttcgcgttc gacggcgcg 120  
 tggcgccgga cccgggcccg tgccccgccg tcgacaagcc cttctgagag acctacgcca 180  
 agacggagaa ggccttcagc ggaaccatcg cctccgggga cagcccaag agcaagctgg 240  
 ggatcacgga cgccgtgctc aagctgaggc tcgccaccga cgccaacatc aacaaggcct 300  
 acgcggaggg ggacaaggac aagatcgcaa aaatccttgg cttgccaaaa attttttaaa 360  
 aaccccc 367



<210> 40817  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G1

<400> 40817

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gcccccttctc catccgcctc accagcgagt ccggcaagaa ggtcatcgcc aaagacgtca 120  
tcccgccgaa ctggagaccc gatgccgtct acacttccaa cgtccaattc tactagactt 180  
tgaattccct tcgattcatc cggcgcggtg ggctatggac ctgcagcagc aagctaatta 240  
agtttatata tattgcatga gagagcatgc accgctaacc atatatacta ctgagacttc 300  
tgaattctag tatatgtaat cctttttgtt tgggtttagg agggcaaact tttttttccc 360  
cccttttttt 370

<210> 40818  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G2

<400> 40818

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gcagatcatt gttgtggtgg ctctcctttt tcttgtggtg gcaacatcat catcagtgtg 120  
ggttgacagaa ggagccgatg acttaaaagt ttcttgcggt aaagagtga cccaaaattt 180  
taacactccc gagggcaaga agatctgtga aacgatgtgt gccaaccta aaggaaggcc 240  
tatcgacaga gttagagctg attgatcaat gctcatcttt atttgtagct agctatcatg 300  
catgcgatga tggccttctt gattattatt atttcattcc ttcattggtt tttttttggg 360  
ggtttttttt tttttttttt tggggggtgt tttt 394

<210> 40819  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G3

<400> 40819

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atccagggag ggcagtgcgg gaaccagatc ggctccaagt tctgggaggt ggtgtgcat 120  
gagcacggca tcgacccgac ggggcgggtac atggggacgt cggacgtgca gctggagcgc 180  
gtcaacgtct actacaacga ggcttcgtgt ggtaggttcg tgccgcgcgc ggtgctcatg 240  
gaccttgagc ccggcaccat ggacgccgtc cgcacgagcc cctacggcca gatcttccgc 300  
ccagacaact tcgtcttcgg ccagtccggc gccggc 336

<210> 40820

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G4

<400> 40820

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agacataata tgataataaa gaactaaata aaattaaggg ttcagaacga ggttgttact 120  
cagcattaat caaataaatg aagcccttgg ctggagttcc aaactaaact actgcatctt 180  
gttttccttt atcatgcccg tacttgcttc cttcttttat tcataccatt gattttatct 240  
agtcttaat cattatatta ttgatagatt tatgtttatc tattcttttc tatattcctt 300  
tattgttttc tttttcattt tgatctcttt tttttctttt attgtgtttc ttattttttt 360  
ttattttctt acttattatt gttatttatt tttttctttc cttttt 406

<210> 40821

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G6

<400> 40821

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gccacagggt gaaggtggcg accacaccgt acggaagagt tgttgacctt ttctgtatca 120

ctgatggcat ggaactgctg cacagaatgg agaggcatga ggagacctgc tcggagctaa 180  
catgtaccct gggcccttac atcaactgct aggtcgtacc agcagaatgg atccagcatg 240  
ggttttcttt cctgccgcct gagatcggct aggaactggt catggcggag cttgctgaca 300  
ctgacag 307

<210> 40822  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H1

<400> 40822

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ggcaggcaag ttccccgacc tggttactca ccaggaatcc ctccaatcca aggtgaacga 180  
gactaaggca accgtcaagt tccagctcaa gaaggctcct tgcattggcg tcgccgtcgg 240  
caacttggcg atggaggaga agcagatcca gcagaacatc cagatgagcg tgaacttcct 300  
tgtttccctt ctgaagaaga actggcagaa tgtgagatgc cttctta 347

<210> 40823  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H2

<400> 40823

tttgatattg agttctctgt cacacataag gagttggatt tctcccatth attggatcac 60  
ctaagaagga ttctcagggg tcaggtctca ttatttgatt ggtccaggtc aacatcacta 120  
gctaggacct tttctcctcg tgttttggag aaccaaattg atgccagaaa agagttggag 180  
aaaagcctta aagctacctg tgaagagttt ataattgtcca taactaaatt agtagttgac 240  
ccaatgcttt cttttgtaac aaaggaactg ccgtcaaagt tgcattgtcc tctggtagcc 300  
agtgtcagaa attaaattca gttctagcaa aaccctttga aagaaccttc taaaaatggg 360  
gttccccccc tttttttttt attttttt 387

<210> 40824  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H3

<400> 40824

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atcaaatttg gtacaagaga tgaacctgat tatgaggtgt acttgcacag aattggcaga 120  
gctgggcgct ttggccggaa aggtgctgtg ttcaacttgc tgtgtggtca aaccgataat 180  
gttgtgatga agaagatcga ggactatttc cagcacagtg tgccctgaggt tcggaattgg 240  
caacgtgaag aagattttga ggctgctctc aaggatgcag gtttacttta aagtaaccac 300  
ggaaacttgt ggtgtttttt gctgagcctg ctgcacaacg tttattttgg ggtttttggg 360  
ggggccccct ttttttcccc cttttttttt tttt 394

<210> 40825  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E7

<400> 40825

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tatacgtaga tacacgcgtg tgggattaaa tcaatgatta aatcaatccc tacttcctct 120  
gtggaaaaaa aatttgacca aactgtactg tgatgtgtaa caatgccaca acacagtact 180  
tgaaggcaaa cgtatgtaga ttaattagca gaacgacaac ctgtgatcca tccttgcttt 240  
cttccatgaa atgaaacgca gccagcgcga cctggcatgg ccaggccatg agctagaaga 300  
agcagcctga tgcccaccgg ccttcagcac ggcttgcccc 340

<210> 40826  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C9

<400> 40826

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ggccaggacc aaagacaaca atctgctcgg caagtgcgag ctctctggca tccctccggc 120  
gccagggggc gttccccaca tcaccgtgtg tttcgacatg gatgcgaacg gcatacctcaa 180  
cgtgtcagcg gaggacaaga ccaccggaca gaagaataag atcacgatca ccaacgataa 240  
aggacggcta agtaaggagg agatcgagaa gatggtgcag gaggcagaga agtacaaagc 300  
cgaggacgag gaacaccata agaaggggaa cgccaagaac actctcgaga actatgccta 360  
caatatg 367

<210> 40827

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-032-Q1-K1-D1

<400> 40827

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gacaccaggc ctgcctccgc gggctcccga ggccgccccg cgcccagga cgacgacagg 180  
gaggagggcg agatcaccga cctcgcttgc gctccttccc cgcccgccac gcacccgctc 240  
gagcactcct ggaccttctg gttcgacaac ccgcagagca agtccaagca ggccgcctgg 300  
gggagctcca tccgccccat acacaccttc tccaccgtcg aggaaattct ggggggnggg 360  
gggggggggc cccccctttt tttttgtttt 390

<210> 40828

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D12

<400> 40828

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tctggtgatt cccctgacgc agtcgccgtg gatgaggatg gggatctcgt tctggaccgg 120

aggagaagaa acaaatatgc tagaggtgac cgccatctgt tcactattca gcatggtggt 180  
accagctcgc ttaagagcgt tgggcttcag ccgtgcaggt ttggaaagcg gccttactat 240  
tatctgactt gattctgcac gaaagctttt catcggtcaaa ctttgatggt gttactgcc 300  
ttgagatagg tgctggaaca gggttggttag gtttagcact agctcgagtt gctagaagga 360  
ttttggtaca gatagaggca ctgatatacct tgataattgc ttg 403

<210> 40829  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D3

<400> 40829

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gtccttgagg cgcttgctgt cggcgggtcg tgcgggcccc cgaagggtgcc gcccgcccc 120  
aacatcacca ccaactacaa cggcaagtgg ctaccgccca gggccacctg gtacggtcag 180  
cccaacggtg ccggcgctcc tgacaacggc ggtgcgtgag ggatcaagaa cgtgaacctg 240  
ccaccctaca gcggcatgac ggcgtgcggc aacgtcccca tcttcaagga cggcaagggc 300  
tgtggctcat gc 312

<210> 40830  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D5

<400> 40830

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cttcatggtg gggagaagca agccaggctg cggcttcctt cctgccctca gttcaagga 120  
tgttcatcat cctcgctggg gtggaaggcg cgtcgagccg gggttctgcc tcccgcatgg 180  
gccagcggcc cgcttcttcc tctagcattc gggggacgag aggggttcac cagccatgag 240  
aaggaggcga actttggcta cgcggcgccg gtcagggtga ggcgctgaca gctgctgagt 300  
gcctggctct tggcctgagt ggcctgccc cgtctccga caactgtcg ccttttttt 359

<210> 40831  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D6

<400> 40831

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gagaattacg caagtaccgg agaaaagggt gaggtggagc tgataaattg cagtgtgaag 120  
gggtttgttg tgtcacttga ctactgata ggtttcttac cgtaccgtaa tcttgctaca 180  
aagtggaaat tcttagcctt tgagacttgg ttaagaagga aggggtggcga tcctttcttg 240  
tacaagcaga gtttgggatt agaggatagt tttgagggtta atgacacata cctataacca 300  
aaatctagct cagtttccaa aatagctggg tgatgaccca taagttaaaa aaaatttttt 360  
ttctctcttt ttttttcttt tttttt 386

<210> 40832  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D8

<400> 40832

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acttggtcct ccccccaac gttgccacca tctctgacgt ggagatcaag gagcacggtg 180  
gcgacgactt ctcttttacg ctcaaggagg gtccgactgg cacttgacg cttgacacca 240  
agaccccgct caagtacccc ctctgcatcc gcttcgctgt caagtccggt ggctaccgca 300  
tcgccgacga cgtcatcccc gccaatcca agggccgggc aaccccccaa aaaaaccttt 360  
cccccttttt ttaaaacccc ccaa 384

<210> 40833  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E1

<400> 40833

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tcagcaaaa caccgccgtt gccgaggtgt tctcacgcat cgaccacaag ttgacctta 180  
tgtacgcaa gcgcgcattc gttcactggt atgtcggatg gggatatggaa gagggtagt 240  
tctcagaagc ccgtgaggac ttggctgctc ttgagaagga ctatgaggaa gtcggtagc 300  
agggtgccga tgatgagggt gacgaggag acgactattg agtagccttt gggggcccct 360  
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<210> 40834

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E11

<400> 40834

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gtgcgtgtgc aggtgctggc ggcgatggca ctacatttc tggtagggcg tgctggtgt 120  
ggctctcca aggttcccc gggtaagaac attacagcca actatggtag tgattgtcta 180  
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<210> 40835

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E2

<400> 40835

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ctctccaagg tcaattctc gctcatgtca cctaagggcg accaagtcta ggcggaggag 120  
gcagcgggtc gagggtcacc gaagaggtga tgaatggtgt gcgccccgt ctggaacaac 180  
ttcgtgctcc gtacacagag gacaatgtgc tgtgggtggt gttgtcggcc atgtacaaca 240



tgaggtgtgt gggcataggg ttgtccgaga acgacctcat tgtgggagtc gactgcgtgg 300  
tgtatgaagc agtggtccta ggagacttcc caagaattc 339

<210> 40836  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E3

<400> 40836

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cgggcaatcc agtcacggtg tacatcactg acatgaacta cgagcctatc gctccctacc 180  
acttcgactt gagcggcaag gccttcggct ccctggcaaa gcccgggctc aacgacaagc 240  
ttcgccactg cggcatcatg gacgtcgagt tcagaagggt gcggtgcaag taccctgccg 300  
ggcagaagat tgtgttccac atcgagaagg gctgcaaccc caaactaccc cttt 354

<210> 40837  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E4

<400> 40837

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acccatcttc agagaattcc tgggtatgat aagtggatca ttgaaagggc ggccaggcct 180  
tatattgaag catttgaaga ccgtaaagaa aacctcgtgt atcttacagc agatgctgag 240  
acagtgcttg atgatctaga catgtcgaaa atatacatca tcggcggcct ggtggatcga 300  
aacagatgga aaggcataac actgaagaag tcagcttgag gccagggggg ggggaaaaaa 360  
aaaaaatttt tttttttccc cccc 384

<210> 40838  
<211> 303

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-032-Q1-K1-E5  
  
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 aaggaaaggg aggatgagga gagaaggccg aggacgaagg agatggagag gagaaagagg 180  
 acggagaagg cgaatgagag ggacaggatg aagatgacga acgaggacat gacgagtccc 240  
 tagctcatcg actagactta catcgtgtt cttaagcact tgtggcgatc attcgcgttg 300  
 ctg 303

<210> 40839  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-032-Q1-K1-E6  
  
 <400> 40839  
  
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 cagggcgagt accaggcgga gcacgcggag cacagcgtca aggacaccgc cgaaagcgcg 180  
 gacgtcagtg cgcacctgca gaaggaccgc cccaccgaca ccgctgagca ggtggagcac 240  
 acggtccaag gcgtgaagga cagcgtcaag gacacggtgg ctggcgctgc gaacaccgtc 300  
 acgaacacgg tggcgggctg tacggacacc gtcacgaaac ca 342

<210> 40840  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-032-Q1-K1-A8  
  
 <400> 40840  
  
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 tctctgcctt tcctccgcaa acacagagcg caagaggaga gagagagaga gactgagagg 120

ggagagagag ggctaggggtt ttgtgcccc caccgctcac gcatcgaatc cgagccgggt 180  
 cgggggttgct gcgaatcgcc ggcggtgctt gggctgtgat tccattgcaa tggcatctga 240  
 aactgatgag aaagctaaga tggagagttt gacatctgct gcagcctttg tggaggggtg 300  
 cattcaggat gcatgcaaca tttgcctt 328

<210> 40841  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B1

<400> 40841

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 taattattgg tgttagtttc ctgctttccc tagtccctcg caatcaacag atacctcatg 180  
 gacgatcagg agaacgagaa tgagcacgag aagcatgccg atgctgggac tgacgtcgag 240  
 gacgaagagg aggacgaaga tggccacaag cgtgtcgtcg ttcttgggcc ccaagtcccc 300  
 ctcaaggaac agctggagct tgacaaggat gatgagagcc tgaagaaggt gggaaaaaaaa 360  
 gggggggggg gtaaaaaagg gggccccccc c 391

<210> 40842  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B10

<400> 40842

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 tgggacctga tggccacatt gcgtctcttt ttcttgcca gcctcttggt aacgagaaat 180  
 agaggttggt cacatacatt aaggattctg caaagtcttc ttcagagaga agttcattca 240  
 cgttttcagt aatcaactca 260

<210> 40843  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B2

<400> 40843

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acttgcgga cacttacc tgttctcgg cgccggcgag gccgggactg gcattgccga 180  
gctcattgct ctcgagatgt ccaaacatac tgggtctccg atcgaagagt gccgcccga 240  
gatctggctg atggactcca agggcctgat cgtggtgtca cggaaggact cgctgcaggc 300  
gttcaagaag ccatgggcgc acgagcacga gcccggtg 338

<210> 40844  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B3

<400> 40844

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cttgctgatg atgagtcac tggcaccatt ggcacgcgcc tattccagaa tcaataggca 180  
gaacgtcgaa gagaaccgta cgaccctccg tgagctacta ttctagcagc cctggtgcta 240  
tacagtacat caccatgtg atcctcttag atgacactat gcaccacaag accaaggatg 300  
gctatccatc ttgatgatgt cctcaaggac gcaggcatca ctgcatggac atcaaaaggg 360  
gggggttttt 370

<210> 40845  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B4

<400> 40845

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gcgtgggcat cggcgtgcgg cggcaccggg aagcagacga tctcatccc caagggcgac 180  
ttctctgctg gaccactcaa cttcacaggc ccatgcaagg gcgacgtgac catccagggtg 240  
aatggcaatc tgctggcgac cacggacctc agccagtaca aggatcatgg taattggatc 300  
gagattctac gcgtggacaa ccttgtcatc accggca 337

<210> 40846  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B5

<400> 40846

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caagtcaccg gacgaccaca gaggtaaggt ggggtgtcact gggagtggca agggcctgac 180  
cgacttccag aggagggaga agcatctgca ccttaaaggt ggggtccgggg atgcagcgga 240  
tgatgacgag gagtaaaactg aagaaccgag cctctgtttg tatcccgccg aacagacatt 300  
tccatacctg ttcttttagcg ccgacatggc ctcgagggga cttcttga 348

<210> 40847  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B8

<400> 40847

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cagccatgtg tatcgtttcc cacacttggt gaagctgttt ggagttcatg ggcttaacaa 180  
aaaggcacac tggaatgctc ccgagagatc ttgcgataaa ctctgtgccc tcgtataggc 240  
acgtggcctt gtggaagcag gtcatatcca gtcattcttg ggttcgtatg atgctgcagt 300

gctgttcctg ggaaagattt acgtgttgat ttg

333

<210> 40848  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C1

<400> 40848

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catcagtggg ctacccacac aactacgggt tcattccacg aacattgtgt gaagacggag 120  
atccaatgga tgtgctgggt ttgatgcagg aaccgggtgat acctggctgt tttcttcggg 180  
caagggccat cggccttatg cccatgattg atcaggggtga gaaagatgat aagataattg 240  
cagtttgtat tgatgatcct gagtaccgcc acttaaccga tctcaaggag ctttctccgc 300  
accgccttaa tgaaatccgt cgcttctttg aagactacaa gaagaaccga agg 353

<210> 40849  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C11

<400> 40849

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agacgaaata ctggagggag gatgggatcg tgagcccagt gaaaaaccag ggccactgtg 180  
gatcatgctg gaccttcagc actactgggt cgcttgaggc tgcatatacc caggcaactg 240  
gcaagggcat actgtctttc tgagcaacag ctttgtgact gcggttttgc attcaacaat 300  
tttcggatgt aagggggggc ctttcatccc aggcctttga atacatcaaa gacaatgggtg 360  
gtctttgaca ctgtggaggt gctaccctta ccaggggtca acgggatctt ggcagtcaag 420  
gcttataatg ttggagtaag gtttga 447

<210> 40850  
<211> 337

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-032-Q1-K1-C12  
 <400> 40850  
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 aagtcggtgg gtcaagtcct agtggaaaaa ggacgataac atggctggtg aatggaacca 180  
 cacctggggg aaatggaatg gagatgcaga ggacaaaggt attcaaacct ccgaggacta 240  
 caggttctat agcatttcag ctgaataccc tgaattcagc aacaaggata agacctggt 300  
 gctgcagttc tcttgaagc acaagcagaa tcttgac 337

<210> 40851  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-032-Q1-K1-C2  
 <400> 40851  
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 caacaatttc tgaagcagtt tcagcagcag caaccgctac aatctcctcg tgttttagca 180  
 tctggttcac agaaatctgc gaatcttaca ggctcgcagc cgggtacacc attgtcaggt 240  
 ggaactatga ctggtggaag tggaagtcag ggagctgaag gaactagcca acttcttggg 300  
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<210> 40852  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-032-Q1-K1-C3  
 <400> 40852  
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ctgcggcggg tgcagacccg cgcgccaac tcgacgcagg tggtaggggt cctgacgctg 180  
ctcgtctctg gcgcctgct gctgctgctg acgggggtga cgctgacggg cgccgtgggt 240  
gcgctcgtct tcttggggcc catcgcgctg ctcaccagcc ccatctgggt gcccgctgcc 300  
gtcgtgatct ccgccatcgt cgcgcgcgct ctctcc 336

<210> 40853  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C5

<400> 40853

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ccagtcgctc ggcaagacca gcatcatcac ccgcttcctg tacgataagt tcgacaacac 120  
ttaccaggct acaattggta ttgatttcct gtcaaagaca atgtaccttg aagatagaac 180  
tgtgagactc caactctggg atacagctgg tcaggaaagg ttcaggagtt taattccaag 240  
ctatatcaga gactcttcag ttgctgtcat tgtattcgat gttgcaagca ggcagtcttt 300  
cttaaataca tccaagtgga tagatgaagt tcgcactgag ag 342

<210> 40854  
<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C6

<400> 40854

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gcggaaaaga tcacaccatt ctattgatgc tttcatctgg agttcaccgt tatagattca 120  
ttgtagatgg agaaagaaga tttatacctg accttcctg cgaaactaac aatgtgggtc 180  
agattttgaa cctagtagat gtccatgact tcgttcctga cagcgtggaa agtgtatctg 240  
agctcatggc ccttcctcc ccggactcca gctacggttt ccatgttccc ggcgaaaagg 300  
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<210> 40855  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A7

<400> 40855

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 cggcactggg aagcagacaa tcctcatacc caagggcgac ttccttgctg gacaactcaa 180  
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 cacggaccta agccagtaca aggaacatgg taattggatc gagattctac gcgtggataa 300  
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 ggggt 364

<210> 40856  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-031-Q1-K1-G1

<400> 40856

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 ctgcaggcgc ggatcgccga gccggagacg tggcggcgcg tcgagagctg cctctctgag 180  
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 tgctgcaagc cgccgacgtg gtgcaggttc cggtacgtga acgccacgtt ctgggaggca 300  
 ccgagatcgg ggctgtctgc ggcggcgcc agcgacggtg actgccgggc atggagcaac 360  
 gaccagcagg tgctttgctt cgagtgcgac acgtgcatag gccgcgtgct ggagaccgnc 420  
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<210> 40857  
 <211> 342  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-G4

<400> 40857

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gcgcccgcgc tgcggaccat ccccgacgaa gcccgcgccc ccggaaacaa catccacgag 180

gcgtgcagca agacgtgtt cccaaggtg tgctgcacg cgtcaagga caaccccgag 240

tgccaggcgg tggcggtcac gccgcgcgcg ctggccgagc tgctcgtgta cgtgtcggcc 300

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<210> 40858

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-G8

<400> 40858

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tatgcctgac caattgtcat tatttgctat tcatatatgt tactgggtgt atttaatagc 180

tctcaattta tgcagttatg tttgcagttg 210

<210> 40859

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-H1

<400> 40859

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ctccttctcc acggacgaca acagagagcc gggcggtttg ggccctcgca tcgtttgtcg 180

ccgctgctaa cgttcgcatg cccatgcccg cgagcgcgct ctcgcgcgac aataactgat 240

gagttaagtt tgttttgctt tgaccatctc acatcggtat ttctgtaga gatgcgttaa 300  
 tttggtctcg gaaacgggga ggccaattga ggtggaatat ttataattca agaaacacag 360  
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<210> 40860  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-031-Q1-K1-H3

<400> 40860

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 tcgacctcgc cggcgggggg cccgggggccc ccccgacgcc ggtcttctcc ttcccgacct 180  
 ccgatgcgct cttcgactgc gcgtgggtcc agtcccacga ctccctctgc gccgccgtct 240  
 ccggggacgg ctccgtgcgc cttttcgacg ccgtcttccc gccggcgag aaccccgctgc 300  
 ggctcctncc ggagcacgca cgggaggtgc acggcctcga ctggaacccc gtccgcggga 360  
 cgccttcatt ttgccttct gggacgacac gctcaagc 398

<210> 40861  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-H5

<400> 40861

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 gacgactaca gagagccggg cgttttgggc cctctcatcg tttgtctgcg ctgctaactg 180  
 tcgcatgccc atgcccgcga gcgcgctctt gcgcgacaat aactgatgag tcaaattcgg 240  
 cttgcttttg accatctgac atctgttata tctgtgaaga gatgctttta atttgggctc 300  
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<210> 40862  
 <211> 349  
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 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A1

<400> 40862

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 ccgtgcagga cgcgtgcagc aagaccagc tccccaagat ctgctggac agcctcgccg 180  
 ccaagccgga gagccagaag ggcgcgcgc gcaagctggc ggagctgttc gtgaacatcg 240  
 cggccgagaa gggatccggg atggccacct tctgtcaccc caagtacagc gacaaggagg 300  
 acagcgacat attcaagtgc tacgacagct gctccgacga cgtggagga 349

<210> 40863  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A10

<400> 40863

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 cagctgaaat tttgttctg ggattcgcca cagttgatgg tctgtctctt actggccctc 180  
 atctcttcac cctgtggctg tggatgggtg ttaaggtttt ggatacagtt gaatgttcac 240  
 aagtggctat caactttcca tggagcccat caaattttct gg 282

<210> 40864  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A11

<400> 40864

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cgagccatgc ggtacccggc tgtgtcggcg ctctgtgtct cgcctatgc agccttctcc 120  
 ggcgtgatcg tctttgccgt cgtccactcg gcgtacgacg acgcatgtc gcggacgcgg 180  
 acgctgctgg gccacaacct ggatccgacg ccgtggcacc cgttcccgca cgacaagggc 240  
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<210> 40865  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A2

<400> 40865

gatcccccca caccttgaga cctgcgttgt caccaccca tcaagggttg gcccgccagc 60  
 agagttcagc cgttctgtt cctgataaaa cgagagaagg atggcagtgt ctccaggagc 120  
 tgtcctattc ttgtttctcc tctcgtcgc agcagaggtg ggaaccatcg atgccaaaat 180  
 gggagtagcc atgcccacgc atgccttgat aatggagaaa gcgaaacagc aggagaagga 240  
 gaagaaggag gagaaaagca cggagaagga agagagtcaa tgcttatcgc cgagtctcca 300  
 gttcgagggc ttctgcttca acagcgacag atgcgccgta ggttggttgc ccaaaaattt 360  
 tttttggggt 370

<210> 40866  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-032-Q1-K1-A3

<400> 40866

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 ttctcttttc gtgtcgaggc tggccaggtc tagccatgcc ctccccgtg ccgccgcgcg 180  
 ggccatctct caggcgccca ggccccagca catcgcctct cctatattct ccggccttgg 240  
 agcagcggct cgtgatttca gctcaagggc tctatggaag ggagcattcg tcgatgcctt 300

cctggctaga ataaagaaga acagagaaaa catgaatggg aagaagattn tgggttcctt 360  
 ttttccccgg ggggtttttt taa 383

<210> 40867  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-032-Q1-K1-A4

<400> 40867

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 gaatccatct tccctcagaa actcggaacc ccttttccac aaaatttcaa ggaagttgtg 180  
 aagacaatct ttaagcgact tttccgtgtt tatgctcata tttaccactc acattttcaa 240  
 aagattgtca gccttaagga ggaagcacat cttaacactt gcttcaagca ttttacattg 300  
 ttcacttggg aattcacgtt gattgacaag gctgagcttg ccaccncaa accccttttt 360  
 ttttttttaa aaaatttttt ttt 383

<210> 40868  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-F4

<400> 40868

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 cgtgcgcacg acgacgacgt cgctgctagc agcagtcac cgtgcctct gcacgtctc 180  
 cctctcccc cgcggcgcg ctgccgcgcg ggtctcccc ggcgccagcc cgatcgtggc 240  
 cacctgcatg acgggcccgt acccgagct gtgcgtg 277

<210> 40869  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A6

<400> 40869

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gacaaaggta atggagtcgt cacgcatgtt ccagccggcc atcctcctgc ttctcctgct 120  
cattgtgacc accgatgtgg cgcaggcggc gaggggaatgc gagaaggaca gcgagcgatt 180  
ccttggggca tgcattggcg cgacaaactg cgccaactg tgccgcggtg agggcttctc 240  
cggcggcagg tgcagcacct tccgccgccg ctgcatctgc actaagccgt gctaaattaa 300  
cctactcccg gcagttcgat ggtggacgtt tattctatct tttttttttg gggggggggg 360  
ccccccctt tttttttttt 380

<210> 40870

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-B4

<400> 40870

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gttttttttt tttttttttt atattttcct ttttttgtgt taaattaatc cgaaggctcc 120  
aggcctgggg gaacctatc gctaattccc ttaacggtag tctccgctac catacattcc 180  
atgaaacca aagactttga tctctcataa agggccaccg aggtcctatt agttacac 238

<210> 40871

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-B5

<400> 40871

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gggttgctat tttgaggctg gaggtgtgct taaactggga acatccatta acgctgcttt 120  
caaaatggca ttggaaactt gggcttcatg ggtgaaagag agaattgatt taaggcgaac 180  
acatgtattc ttccgtacat atgaaccgtc tcattggagt ggcttaaatac aaaagggtgtg 240

tgaagtaaca caacaaccta ccgctgaggc caatggaaat gacaggagag aatttgggga 300  
 tataacttgct ggtgttgtgg caaatatgaa tggctcctgtc acaagactaa atgtgacttt 360  
 gatggggccc ttttaagtgg tgcttatatt ggactttgga g 401

<210> 40872  
 <211> 331  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-C1

<400> 40872

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 aactatcaag gtgaccaacg tgctctctc ggcgaccgag gagaacatga aggagttctt 180  
 ctcttctctc ggcgagatcg agtacgtcga gatgcgaatg gactcggaga cgtttcaggt 240  
 tgcttatgtc accttcaagg agtttcatgg agccgataca gctctgctgc tctttggatc 300  
 aagcatgtgg tggcaatgtt tccgtgaaca t 331

<210> 40873  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-C2

<400> 40873

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 gcggagcgcg cagcgcagtg cgttagggac ggcgcggcgc ccaccgcctg cgccgtgacc 180  
 gacaccgtcg gagccgcggc cgacagcgcg cagctgcagg agcaccgcgc cgccggcacc 240  
 gttcagcagg ctgctgagca ggtggcgcag acggcggcgc gcgcggtggc agccgtcaag 300  
 gacacggtgg cgggcg 316

<210> 40874  
 <211> 63



<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-031-Q1-K1-C3  
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 gat 63

<210> 40875  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-031-Q1-K1-D1  
 <400> 40875  
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 agctcgaccc gtgcgaggtg gtggaggtct tcgtccgggt gacggggcggc taggtcggcg 120  
 cggcgtcgtc cctggcgccc aagatcggcc cgctcgggct ctccccgaag aagatcggct 180  
 aggacatcgc caaggagacg gccaaggact ggaacggcct gcgcgtcacc gtcaagctca 240  
 ccgtccagaa ccggcaggtc aaggactccg tcgtgccttc cgccgccgcg ctgcgtcatca 300  
 aggcgtctca cgagcccgcac agggaccgga tgaaggtcaa gaacatcatg ca 352

<210> 40876  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-031-Q1-K1-D2  
 <400> 40876  
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 caaggtgtga aggttgaatc ctacgcagtt ccttcagccc caactccaga tgttgctgaa 120  
 gcacaggccc cagctgctga ggaggaggac gatgatgatg ttgacctttt tggtaggag 180  
 accgaagatg agaagaaggc tgctgaagag cgtgctgcag ctgccaaggc ttctggcaag 240  
 aagaaagaat ctgggaagtc atcagtttta cttgatgtga agccatggga cgatgagact 300  
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gcattcaagc tttgt

375

<210> 40877  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D3

<400> 40877

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gctcatcccg tcggagaatt tcacgtcggg gtcagtgatg caggcagtgg gttccgtcat 120  
gaccaacaag tacagcgagg ggtaccctgg cgcaagatac tacgggggaa atgagtttat 180  
tgatatggca gagtccttgt gtcagaaacg tgctttggag gctttccgtt tggacccggc 240  
gaaatgggga gtgaatgtgc aacctctatc cggttcgccc gtcaacttcc atgtatacac 300  
tgactcttg aagccacatg ataggatcat ggctttggat ctttctcacg gtggacatct 360  
ttctcatggt ttccagactg acactaagaa gatatctgca actcaatatt ttttgagaca 420  
atgccttaca gatt 434

<210> 40878  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D4

<400> 40878

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gggcccggcc gccgcggcgg cggggatgag ggcgtaccac gagcgggtgg tggaccacta 180  
caacaacccg cggaacgtcg gttccttcga caaggaggac cccaacgtcg gtactgggct 240  
ggtcggcgag ccggcctgag ggcacgtcat gaagttgcag atccgcgtcg acgaggactc 300  
cggtaaaatc gtcgacgctt gcttcaagac ctatggctgc ggcttcgcca tagcgtcctc 360  
gtccgtcgct actgaatggg tgaggggata accaatggat gaaggtctga caatcaagaa 420  
tactgagatt 430

<210> 40879  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D5

<400> 40879

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 taatggcctc ggttcgggct ccggcgacga cgaccgccgc cgtcactcta tgcctatgcg 180  
 tcgtcctctc ctgtgccgag gctgacgacc cgaacctccc cgactacgtc atccagggcc 240  
 gcgtgtactg cgacacctgc cgcgccgggt tcgtgaccaa cgtcaccgag tacatcgagg 300  
 gcgccaaggt gaggctggag tgcaagcact tcggcaccgg caagctcgag cgcgccatcg 360  
 acgggggtcac cgacgcgacc ggcacctaca cgatcgagct caaga 405

<210> 40880  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-031-Q1-K1-E2

<400> 40880

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 ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac agacagcacg 180  
 aaggctgtgc aggaggcatg ggcacggcgc tgcggcggca ctgggaagca gacaatcctc 240  
 atacccaagg gtgacttcct tgcggacaa ctcaacttca caggcccttg caagggcgac 300  
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<210> 40881  
 <211> 376  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-E3

<400> 40881

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gaaggttggc gaggcagaga aaaaccttgg tgcaggtgat gtcaatgtct atgcacagat 120  
gattgatgat gctgagggcc tggacaagat tgagaacctg cagagccatg acaacaccga 180  
gatatatgag aaggctgtga agatgctgga atcctactgg ctggaggagg aagatgatgc 240  
catgccctca ggcgacaatc cccagaatgg cttcaacttt gggaaccagc cctctgtttc 300  
atcatgtgga ttcaactttg gctgaagatg cccatttggga atggccgctg tgccattatg 360  
ccttggttag tgctct 376

<210> 40882

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-E4

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agcgccacaa tggcataggg gagctccttg agatccttgg aagcatcatt aatggctttg 120  
ccttgccaat gaaggaggag cacaagctat tccttgcccg tgctctcatc cccctgcata 180  
agcccaaatc tggtgcatc taccatcagc agctgtccta ttgtattgtt cagttcgttg 240  
agaaggacta caaattagca gatactgcga ttaggggtct gctcaaatac tggccagtca 300  
caaactgtca gaaagaggtg ttgtttctgg gggagcttga agaagtgtc gaggcaacac 360

<210> 40883

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-B3

<400> 40883

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gttgaagagg ccaaagagtt ctacccgctg tttggccttg gtgccaatgt ggccctcatc 120  
 ttctctgggc gcacggtgaa atatttctca aacatgagga agaatttggg tcctggagtg 180  
 gatggttggg caatttcgtt gaaggccatg atgagcatag tggttgtact gggctctgtc 240  
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 gttgagcgga ataagaatga ctagccaaag ctcaacatgg gtgaaagcat gaaaggctct 360  
 gtgtcatctc ggtatgtgag ggattttgct tcattgggtg gtgcttatgg a 411

<210> 40884  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-F3

<400> 40884

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 tttgaaccct gtggctactc catgaatgcc atccatggct ctgcattctt cacaatccat 180  
 gtgacgcccg aggacggttt cagctatgcc agttatgacg ttatgggctt ggatgccact 240  
 gctctgtctt atggtgacct tgtcaagagg gtccttcggt gctttggccc ctcgagatta 300  
 tccgttgccg ggaccatctg tggggggcgt agccatgccg ggacatgggg aaaggcactt 360  
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<210> 40885  
 <211> 148  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F4

<400> 40885

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 gcatgtaata taatgtgata tacccaat 148

<210> 40886

<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F5

<400> 40886

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ttcacatgcg atgctgccga gaccggagag cacagtacac gacgggcact gacggcgcac 120  
cgggattgaa gcagtcctcc actaccactg ccaactccaga tctgccc aaa acaccctgac 180  
ggacggaggg tatcttttca acaagtgcaa ggcgccctcg gctaattcca aggtgttttt 240  
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ttgatccaat cacaagcagc ggggacaatc atgcatgcc cgggccccgt cgtcccttct 360  
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<210> 40887  
<211> 356  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F7

<400> 40887

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agttgattga ctttggctctg tcataatttta ttagaccaga tgaaaggctc aatgattttg 180  
gtggaagtgc ttattatgtt gctccagagg ttctacacag atcatacagt atggaagcag 240  
acattttgga gtataagagt tataacatac attctgttct gaggcattct ggccattttg 300  
gcaaggacat aatttgggtt cttccgggtc gtattgaggt ctttttccaa ttttga 356

<210> 40888  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G1

<400> 40888

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 aagatccttc ccaactcgct ggtgatggac ttctgaaca acggggaggt gtccggggtc 180  
 acgtgctca actccaagtt cttccacatg aacatgtacc agtgcaagaa catgctgac 240  
 aaggacgtga ccgtgacggc gcccggggac agccccaaca cggatggcat ccacatgggc 300  
 gactcatgcg ggatcaccat taccaacacc ggcattggcg ttggcgacga ctgcattttc 360  
 atcggccctg ggacct 376

<210> 40889  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G2

<400> 40889

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 aaaaggacag gagccaacaa ggaagaatcg gcggcagccc ccggtggcgc tgctggaggc 180  
 agcggcggga cgttcgacat ctccaagctc ggcgcgacca gcgacggcaa gacggactgc 240  
 acaaaggcag gccaggacgc gtggacgtca gcgtgcgaag cgaccggaag cgccacggtg 300  
 gtgatcccca agggcgacta cctggtcggg cctctcaact tcacttggcc atgccagggg 360  
 agcaacaatc gcattcaact ggatgggaac ct 392

<210> 40890  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G4

<400> 40890

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 cgagaacaag gccattgcca aggtggcgaa aaccagccg ccggtcgcta acctcgagga 180

gctcaagaag gatggcctcc agttcgccag caagatctga gacgctcccg ttccatgtaa 240  
 atttccgtgt catcgtgaag gttcttctgg agctctgggc atgattgaga aatgttctgc 300  
 ttgctacaga tattatacta catacgtgac tacgtgatat attctgtttt cttgatggga 360  
 tatctgtacg tgggtacact taca 384

<210> 40891  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G5

<400> 40891

ccacgcgtcc ggggacgcgt gggacgtggc caaccatcaa ttcaatatgg tgggtggtctt 60  
 cttgcaggac ctgtgcattc tgttgggcct caagtaacctc gcagcggctc tgattctgat 120  
 agatggcagc aaaagggctc catgccttcc cctgtcacac ccatgcaaac aatgcacaaa 180  
 gcagagagga agtatgttgt tgggaaagtt tctgatgagg aggaggcgaa acagaggcag 240  
 ttgaaaggca ttcttaacaa gctgactcca caaaactttg aaaaactggt tgaacaagtt 300  
 aaggaagtca acattgacag tgtagcaact cttactgggg tcatttcaca aatatttgac 360  
 aaagctttga tggaaccaac tttttgggaa atgtatgct 399

<210> 40892  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H2

<400> 40892

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 tggtagcaag ggagagatga tactcgacgc cacaagcaac atggcagcac tagaagttgg 120  
 cggaggcccc tggttcaatg ggtggaaagg gacaactggt gtgaacgagg ttgtaaataa 180  
 cattgtgggc acgccagtcg atgtagagag cctcctccca atcccatttc ttaagcccc 240  
 aggctatag gatcaccaac gaatgtcaca atgaagaagt atcacggata tcaatgttga 300  
 tcatacaaga aaactgtgcc cagggtcaata ataattcatg atttttactt gttttttact 360



<210> 40893  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H3

<400> 40893

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agaggccatc ctagagagat cggaaggcaa ggtgctggctg accggcttgg gcgcccgtga 180  
cagtctccga ctggaggcag gcctgtgcct gtacggcaac gacatggagc agcacatcac 240  
gccggtggaa gccggcctct catgggcgat cggcaagagg aggagggcag aaggcggttt 300  
cctgggcgca gacgtgatcc tgaagcagct tcaagaagg ccaaagatca agcgcggggg 360  
catggtcacg caaggggccg ccgcgc 386

<210> 40894  
<211> 326  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H5

<400> 40894

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tttgcgaaag cgctggatga ggctaccgag aatgccatgc gacgagtgc tctcctgtgc 120  
agacaaggaa tcacttgccg tcggaacaca gttgcttgtc ttaggtcgtg aatatactgg 180  
ccttgctatt tggatgtaca acttactgac tcgcagttgg ttcccatgca cttcaatgaa 240  
tctgccccgc ttcctttttg tctcggaag ctttaagtgc attgctattg ttgctggtgg 300  
atgtgataag aatggaccag tgctga 326

<210> 40895  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H6

<400> 40895

cccacgcgtc cgttctaatt ctttgggccc gagaaatgca agccgtgggg gagccgttac 60  
cgccgccagc ctctcctgcc cccgttttcg ttgcggtttc ttcattagcg cgaacaaagt 120  
tttgtgcggg tctatcgggc gccgctttcc tcccctatcc atcaagactg caataactgt 180  
cgctacctat gcttctcacc tgtgattttt ggacacaata tggttaaggtc cattcaattc 240  
taatgagacg cctgatgagg ctactagcaa acaacaccat gtgttcggat tgtcattggg 300  
tattgatgtc ttgtgaatga ataataataa tttttttt 338

<210> 40896

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A1

<400> 40896

gcaaaaggaa cataaggata gaggagagaa ataaacaatg gggaaggagg atgtggctac 60  
caggtaaaaa tctcaaaaat caccagcaat acagaatgag cagagtacac ctgctaaccc 120  
gccacagca tctcctgatt ggtctcagtt ccaggcatac tataatgctg ctgggacagc 180  
tccagtgacc ccaccttttt ttcattccatc tgtagctcca agccatcagg ggcacccata 240  
tatgtggggg ccacagatga tgtctcctta tgggacacca ccaccatag cagcaatgta 300  
tgcacaagggt tcaccatatt aacaggcacc aatgccaccg gggttcacacc catacaggcc 360  
ttaacctatg cagttaccaa acgggacagt tcaaacttca acatttggtg cttgtgggac 420  
agcgacagat taattaaatt aaaaataagc 450

<210> 40897

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A2

<400> 40897

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ggaacgccac cgccagggag gccgtcttct ggtggggcaa ggaggaggcc atctacgaca 120  
aggacaagga gaagtgcaag tacggcaagg tcttcaagga gtgcggccac ttcgcgtca 180  
tggtcggcaa gaggagcacc aaggtcggct gcgcacgagc cgagtgttc aagggcggcg 240  
tcttcatcac ctgcaactac tatgcaacgg acctggacaa gaacaagaac aaaacaccaa 300  
acgataactg actctatcca cccatctgtt cgtttctatg tacgtacgta cgtagtagcg 360  
ctgacttatt tactgagtga tgattggatt gtttaattaac tactactgaa gcaattgcct 420  
gattccgagg ttggagatga tga 443

<210> 40898  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A4

<400> 40898

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gtctgatgat tctttggcca atgttcatt tctcatcctt ggcaacaaga ttgatatccc 120  
atatgctgcc tctgaagagg agctacggta tcacctaggc cttagcaact tcacaaccgg 180  
gaagggcaag gtcaaccttg gcgactccaa tgtccgtcca cttgaggtct tcatgtgcag 240  
tgttgttcgc aagatgggct acggtgatgg tttcaagtgg gtctcccagt acatcaagta 300  
tggccctcgc cgaagcgcat gctcagcccg gcgaattttt ttgccttggt cgttccggtt 360  
gttccgtgac gagaacgaac gatggtcgct aggaaaagat catggagggt atgaagagga 420  
aaaacagtgc ttaacattgt tgaacat 447

<210> 40899  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A6

<400> 40899

ctacaagatg gcgtgcacaa acaatgcgat gagagccttg ttctctctgg acctcttggg 60  
gatcgagcat ggtgagaagg aagagtcaaa gggcatccat gcgaaagcgt tcgggcctgg 120

tgggtccttc tacatcacca agctggggcg ctcgggaaat ggcaagacag acagcaccaa 180  
 ggctgtgcag gaggcattgg cataactcgtg cggcggtact ggtaagcaga caatcctcat 240  
 acccaagggc gacttccttg tcggacaact catctttaca ggcccttgca agggcgacgt 300  
 gaccatccag ctggattgca atctcgatgc gaccacgggt cttaactcag tcaatggacc 360  
 at 362

<210> 40900  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-031-Q1-K1-B2

<400> 40900

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 acaaccctgg cgggtgctcct cactaccagc aaggtgctgc tcttggtac caaggtggac 120  
 ctccggggta tcaaggtggt taccaaggga acccaggccc tgctaccaaa ggtggtaaca 180  
 ctggttatca aggtggcaac ccaccacctc cctaccaagg aagcaaccca ccacctcctt 240  
 accagggagg cagcccacca gggccaccac ctccctaccg aggaggcagc ccaccagggc 300  
 caccacctnc ctaccgagga ggcaacccca acgtaccgtc atattcgggt ggtggcaatc 360  
 ctggctaccc t 371

<210> 40901  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F3

<400> 40901

ggggtgcttaa aaaaactatt tcatgtctaa gcatgaaaga gaaaaaaaaa cgaatgtgat 60  
 agtttttagca taaaccataa gaagacatgt atcaatacca gtggatcatg tcttccacga 120  
 cacaaataat taaccaaaaa aagggaattt tcttgcaaag ggtaaaagaa ccctctattc 180  
 ccttcaagca agggctgctt ctgcactctt cccaccctca ccaccattag cagaagatac 240  
 attgttggcc tctgcctcag caactgcac catttctct gcaatggcgt caacttctcc 300

aagcgggcga acctgcttct cctctggaag tggcttcaca aatccgtcaa caaaacaagt 360  
gccccataa atacct 376

<210> 40902  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D8

<400> 40902

aaaagagatt taacatgagg ttggcaccag aagaggagtc acacaagctt actgggtttg 60  
tgcataacgc tgtcacttgc atcgggatgg aaacaaacat accggtcatc atagatgaag 120  
ctatcaccaa attggatgag gatttcttct ggttgggtgg cggagaattt gacctcaagc 180  
tcggaatgcg aacctcacia ttcttaagtg tctttagtcc attcgtggtg aatgcagct 240  
gatgatagcc gtgcagccta aaagaagctt ctgattcatt tatttctacc gagcctccat 300  
gcatccatca catggaggta caccacaata ctattgggtt ttgcttggat ctggtggtgg 360  
gattgtattt ttttattgga caggctt 387

<210> 40903  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D9

<400> 40903

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ggagaaggat cacaatggca ggggaagaag ggacagggag aaagagaagg acgaccggag 120  
aagggacaag gatgatggca agcataggga tagagataga gatagggaga gagacaggga 180  
taaggatagc aagtacagag accgggataa ggagccagaa cgtgaacgta accgtgaccg 240  
tgaccgtgac cggggcaaag atcgggagcg ggaaccacat cggcagcgtg acaaggaccg 300  
tatcataaat cgtgataagg aagcagatcg tgataaggaa aggggaagcgg agggacaagg 360  
ga 362

<210> 40904  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E1

<400> 40904

acgaaacaag cgcacaagaa caaatacctc gccgccaaca atggctccat gtcctccatc 60  
ctgctcgcaa cggcgatgct ggttgatgatg ttgcggttg gtttgtgcac cacccegcgc 120  
accttccagg ttggcaaggg atccaagcct ggccacctga tctcaccccc caatgttgca 180  
accatatcca atgtggagat caaagagcac ggtggcaatg acttctcctt tacgtcaag 240  
gagggaccga ccggcacctg gacgctcgac accaaggcct tgcacaaata ccccttttgc 300  
atctgctttg ctgtcaagtc tgggtggtac tgcacgcgcg acgatgtcat ccccgccgat 360  
tttaaggcg ggaccacctt caaaaacaca c 391

<210> 40905  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E11

<400> 40905

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cccttccgcg gcgcggcg gctcccatcc tcggcgctg aagctatata tctgctcggc 120  
gtccatggtc acaggattat atggttgctc atgtcctcgc gccgaagcaa gtgatgattt 180  
agattaaaga aatgtagaac ctgggacatg ctctcttcag ttgacacatg gtcacaagat 240  
ttgcaacaca tatatagttt gcacattctg cctgctcaca tggactcaga agcaacaata 300  
catcatcaac atcgtgtctg caggactgca cattagcatt catcccgctg gctgttagat 360  
tggttcagc aacgtgattt ttatactttc tctatctcct ggctttacag ttttttttaa 420  
aaattccata ctctatattt tctttc 446

<210> 40906  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E3

<400> 40906

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cggcattgggc cccggcaaat ggacgccagc gtcccgagc acgtacaacc tcctggacac 120  
ggtgagccgg cacacgatcc aggtgtaccc tatgtcgtgg acggcgggtga tgatgacgtt 180  
cgacaacgcg ggcatgtgga gcatccggtc caacatctgg gagaggcagt acctcggcga 240  
gcagctgtac gtgagcgtca tctcgccgga ggggtcgtc atggacgaag acaacatgcc 300  
ggagaccagc cttctctgcg gcaaggctgt cggactgcc atgccggcgg gctacccttt 360  
cgtctagagc atgcatcttg ggttgccctt tctttctttc atcacacggg cgcacggggg 420  
ctggatacac aatttaaaag gaacgtg 447

<210> 40907

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E4

<400> 40907

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tgggagaaga tctacacctg gctcgccaag cccggggccg gggtcattgat catggacccc 120  
tacggcgcca ggatcagctc catcccgag gatgcgacgc cgtttccgca ccggcagggc 180  
gtgctgttca acatccagta cgtcagctac tggttcggcg agggcgacgg ggcggcgccg 240  
actcagtgga gcaaggacat gtacgcgttc atggagccgt acgttagcaa gaaccctaag 300  
caggcgtacg ccaactacag ggacc 325

<210> 40908

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E5

<400> 40908

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aggttctccg atggccgaga agtcacccag ctccgcgccg taggggtgggt ctggtgggaa 120  
 tgaatcattc gataatcttg taattcaagc tccacagctt atgagggagg attacatata 180  
 gaatgctgtg aagcttcttt cacatccgaa agtgaagggt tcttcagttt ttcacaggcg 240  
 tttctttctg gaaaagaaag gccttacaag ggaagaaatt gatgaggcct tttgttaaca 300  
 tcttg 305

<210> 40909  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E8

<400> 40909

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 tgccccgacg ccgagaacat catcttgggc gtcggcgaga agcgggttcaa ggcggacccc 180  
 ggcaccgccg ccggcctcct ccgcctcgtc ttccacgact gcttcgcaaa cggctgcgac 240  
 gcgtccatct tgatcgaccc catgtcgaac caggcctccg agaaggaggc gggccccaac 300  
 atcttcgtca agggctacga cgtgatcgag gagatcaaga cggagctgga gaaggaatgc 360  
 cccaactggg ggtcggggcg ggacatcatc ttggtgagcg 400

<210> 40910  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F1

<400> 40910

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 cgaatggtgt ctggcgtgga ggcggaggtg gttcgggtga tcggggagtgc ccggcgtgcg 180  
 ttgaagtttg ctaggttcgt gagcaggttc gggaagagtt accaaagcga ggaagagatg 240  
 aaggagaggt acgagatatt ctgcgagaat ctcatgttca tccgctccca caacaagaag 300



cggttgccct atactctttt tgttaatcat tttgctgatt ggacttggga ggagttcaaa 360  
 aaacacaaga cttggaactg cccaaaattg gtctggcact 400

<210> 40911  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F12

<400> 40911

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 aacaaatata atcacaaagg aaaggaaaaa gcaggagact gttgtcctgg ctgagctaga 180  
 tcaaagaaca agacggctga gatcactcaa gatggatgga taggggtggaa aatacaagtt 240  
 cttgaaagct gtagtcttgg cctattcggg acctgggacc acaacgtatg cttcaacgac 300  
 cg 302

<210> 40912  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D5

<400> 40912

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 aagcccacgt actccacgtt cctgaagctc ctgcaggaca ccaaggctgc gggcgaggcg 180  
 aatcagctcc ggtcggcgac gctactggtc gtccccgaca aacttgccaa gcctctggcg 240  
 tcgctgcccg ccgataaggt gcggccggcg gtggagaacc acgtccttct cagttacttc 300  
 gaccccatca agctggacga gatgaagaca cgcaccgtca ttcttccac gctgctcttc 360  
 gtcaccgaca agaaactcgg cgtcctcaac tacaccaagg gcgacgaccg gcaaattgtac 420  
 tttggggctt ccggggcccc ct 442

<210> 40913  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-030-Q1-K1-F2  
  
 <400> 40913  
  
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 ctcttcgacg gagacgtaac caagtaagcc ttaagatgtg taggctgtgg cttcttgtgt 180  
 aactgaacca gaggattgct agcgtctgaa tttttcgttg ttcggagtag taagtttaca 240  
 gtcaaaaaat ataaaatgta attgttataa ttttcttttt tgttta 286

<210> 40914  
 <211> 468  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-030-Q1-K1-B7  
  
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 tgctgttgca acgttgcatc ctatcctgga aggctggaat gtttatttgg tgctcggcat 240  
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 tgcacttcgc tgtgctaata cgtgccttaa ttactgttac tcgttatttg ctattcggat 360  
 ggttcatgta acaaatgtgg attgagcaat ctgggggttt caatcaaaa ccaaccgtga 420  
 ccttcacccg gaaatgaaaa tagagatggt tttttttcaa caaaacaa 468

<210> 40915  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-030-Q1-K1-B8  
  
 <400> 40915

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gccacagatg cagccgccgc cgctgctcct gagcccgaga agcccatga gcgagctgcg 180  
gaggctgcac atgccgtcaa gcccgcgcaa ggtagcgctg tctctctcct cctcgtcgtc 240  
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gcctgagaac caagccacca tcgctgactc gatagtgtga tccatcagcc atggtggtgg 360  
agagactgtg gcatt 375

<210> 40916  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C10

<400> 40916

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gcggcgcgca cagtccttcg acggccggca ccagcagctg ctgtccacgg ccacggcgcg 120  
ggtggcgctg ctggaccgcc gcctgggcct cagcgacaag ttcagcctcg gcacggccgc 180  
ggtccgcggc gcggtgcgcg gcgtcaacga gcgctttcag gtcacggagc gcgcctgggg 240  
ggccttttcg gcggccggag aggtcgtggc cggcctcctc ta 282

<210> 40917  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C12

<400> 40917

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actcatccgg gatcaccatc accaacaccg tcattggcgt cggcgacgac tgcattctca 180  
tcggccccgg gacctccaag gtgaacatca cggcgctgac ctgcggccct ggccacggca 240  
tcagcatcgg aagcctaagg cggtaacaagg acgagaagga cgtcacggac atcaacgtca 300

aggattgcac tcttaagaag acgatgttcg gcgtccgcat caaagcgta 349

<210> 40918  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C2

<400> 40918

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aaactacata aagcatgctc tattttggag gtacctgagc cagcggttat ccatttcgag 180  
agcgagtcct accagagcta cctcaaactt ctccaagctc ttcttcatga taacctatct 240  
ttgtcagaaa ctatgaatgt ggagtcacaa attatgctcg tctgtgagaa aatactgcga 300  
atgtatctga cctgctcaga gcatgaactg tctaattggtg tttctggtag gggccaact 360  
ttacaacgga tgctctggg tac 383

<210> 40919  
<211> 416  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 40919

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tggctcatcg gatcaagtcc acccatccca ttccttcata ccgatggaag gcaaaggcaa 120  
tgaaaaaatc caaccgaaag caagtgttgc cagccttgca aaagatggac tgggaagatg 180  
ccaattgctc tgtgtgcatg gaataccac ataatgctgn gctcatcctc tggtcatccc 240  
acgataaggg ctgccggtct tacatgtgtg gaactagcta ccgccactcg aattgcttgg 300  
atcatgtcaa gaaagcatac accaaggggg cattgcttga ggaagttcct gcaaatacg 360  
ttggcactga tcttgattca gcgccattgt atgcagaaaa aattgaggcc attgac 416

<210> 40920

<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C4

<400> 40920

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ccagctgtta tattagacaa attgcgtgaa ctatcttgga gtggtgtgcc tccatatatg 120  
cgacctaatg tatggcggct tcttttgga tatgcaccgc ctaataaaga tagacgagaa 180  
ggtgttctaa caaggaaaag gctggagtac gtggaatgtg tttctcaata ctatgatatt 240  
ccagatagtg aacgctcaga tgaagaaatt accatgcttc gccagattgc agttgattgc 300  
ccaagaaccg gacctgatgt tacatttttt tagaatcatc aagattcata aatttctttg 360  
aacgcatttt tgtatacatg gggctatttg tcaccaaca aggtgggtta ccttc 415

<210> 40921  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C6

<400> 40921

cggacgcgtg ggcaaaaatg aacttgatga tgttattgaa gagcttgaga agatagcagt 60  
tgttcatcta ctgcagaaca ggtcaataat atctttaatt ggaaatgtgc agaggtcgtc 120  
tttgattctt gaaaaggctt tcaatgttct acgaagaaac ggtgtcaatg tccagatgat 180  
atcgcaaggg gcgtccaagg tgaacatttt cttggtggtc catgacagtg aggcaaaaca 240  
gtgtgttcaa gccctccact ccgcgttctt tgagaatggt ttcttggttg aagctgatga 300  
gttggatgtt cagcatgatg gctttacatc gcattccaat ggcacaatcc acaggcatta 360  
accgaagatt tgatattcat 380

<210> 40922  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C9

<400> 40922

cctgtccatg agcagctgcg cggacgggct ggtggacgcg gtggacggct ccaccgccat 60  
caccgtctcc aacggccact tgacgaggca cgaccacgtt atgctgttcg gggccagcga 120  
cgccgcgtcc aaggacaggg agatgcaggt caccgtcgcc ttcaaccact tcggcaaggg 180  
gctgggtgcag cggatgccgt gctgccgtca cggcttcttc cacgtgggtga acaacgacta 240  
cacgcactgg ctcatgtacg cca 263

<210> 40923

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D1

<400> 40923

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tagatcttcg atcgttcatc caagctaata agtcagtaag cagcagtagg tcgaaaatgg 120  
cgatgaggtc gctagcgcta ctggtcctcc tcagcctgct ggttggttgg gtggcgcatg 180  
cgggtggagtt ggagatggag ttggtgcctg ctgatgcaat tgcgatgact atggatcatg 240  
agccgcccac ctctcccgcg acgcgctgga caacctcaag gccaaatct acgggaagggc 300  
catggaacag ctgaccgcgg cgatgggcgc c 331

<210> 40924

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D10

<400> 40924

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aaatctttgt ccgctcttgg agacgtcata ttttctctat cgagaagaa tgctcatgta 120  
ccctaccgga acagcaaact tacacaagtc ctacagagtt ctttgggtgc ttactattgc 180  
tgattgttct atatactatt tacatgttat cagttatcta atatttttca tctgcaggcg 240  
gccatgcaaa aaccttgatg tttgtgcaga tcaaccaga tgtctcatct tattcggaga 300

ctttaagtac tttgaagttt gctgaaaggg tttctggagt ggagctaggt gccaaaggcga 360  
 ataaagaaag caaaaatatt agagaattta tggaacaggt gataaattat tgttttcctt 420  
 ttgcccgacc cttat 435

<210> 40925  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-030-Q1-K1-D11  
 <400> 40925

gttctttagg aaatttggat ccataccatt aaaagatcac cactttggat ccataccatt 60  
 actatctcac ttacatgtgg gtccacatga gtcaatgaca tgtgggggtcc atggtatata 120  
 tctaaagttt ggatctttta atggtatata tccaattggt cctagttctt aactgtgttg 180  
 cttattccat caggacagca cgtcccaaatt gattttgtgt taactagcaa acagtttgag 240  
 ataagttatg ttttgcaaga ttgacatatt ggtatatagt ccgtattttt cttgtcttct 300  
 cgttcttgct cacatgtgtt acatttgaaa ttccgtataa acctatttaa tatggactgt 360  
 tattggcttg tgcctcattt acatcttgc 389

<210> 40926  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-030-Q1-K1-D12  
 <400> 40926

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 caagtgaag ggcaagggct cgaagtctgg tgcttcaatg aggtgccctg ggtgccaggg 120  
 ctcaggatg aaagtcacca ttcgtcagct ggggccttcc atgatacagc agatgcagca 180  
 gccttgcaac gagtgaagg ggactgggga gagcatcaac gagaaggacc gctgcccattg 240  
 gtgtaagggt gagaaggctg ttcaggagaa gaaggttctt gaggttcattg ttgagaagg 300  
 aatgcaacac agccagaaga tcacctttcc tggatgaagct gatgaagcgc ctgatatcgt 360  
 tactggagac att 373

<210> 40927  
<211> 351  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D2

<400> 40927

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gagggcgggc gcggcgccgc gctcctcttc tccctcctcg cctactacct gcactaagcg 120  
gacggacgga cggacgcgcg catggcattg gcatgcatgg actggtgaac atctatgcat 180  
gcatggacga cgtcacttgc aacgctgttc ccatatagta ctactggtct gctatgaata 240  
tctatgcatg catggtaacg gggcgcggtta ttttaattatt attattacgt agacattact 300  
atgtaaaaat catgtgttcg cggaaagtcg ttctggaatc ttgggatgga a 351

<210> 40928  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D4

<400> 40928

ccacgcgtcc gcggacgcgt gggaaaggat gaatttgtga gctacgcaag cacagaagct 60  
aggcgtttat ctgaagcagc atttggtgag gctatgcttc aactatttg gtatatattac 120  
gtgcggcaag cagcaagaga acttgggaaa agtagaattt atatgggtgt accggttata 180  
gctgagtggg ttagagacaa aggacaccac attaaatcgc aagttaatgc tgcttcaagg 240  
gctatttttc taatacaact ttaagaaagg atgaaaaaga tggaa 285

<210> 40929  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B6

<400> 40929

agcagatcca gaaatcatta aattacagct tgaatttctt tgatatgaaa aaattcacct 60



cgaatacaaa tgtccacagg atacaggaag ctccttacia tactactaac ctcatctctg 120  
 tacatgatcc ccagacctca gttttttttt ccatcacaac tgttctggga gatagggtgca 180  
 tccacatcct ggactggctg gatccatcct ccaggaaatc ctgctatgtg ttgaagaccg 240  
 aattttttgt aaactactac tactactacc gtttggaact gcagaccctt ttgttatttg 300  
 tggtcacgga tgaaagttga gatccctgga gcaaggtctc atgtggagaa ccccttatt 360  
 catcacgtat tctgggaact catgcatggc aaaacgccat gctgattgtt ggacatgaac 420  
 ataatggtta cg 432

<210> 40930  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-029-Q1-K1-H5

<400> 40930

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 ggatagaaga agaggctcct gtttgccgtg tgagcagcag atttgatgta ttatttggtg 120  
 gctaataaac agctattgta cactgtagag gcaaaagaaa caaattaacg tggtttccat 180  
 tttctttata tgttttgggg atacctgagg agcggtttat atcatacatt tttattgaca 240  
 taattcaata gggantgtta tgtgcgatac ttgtcaaaaa aaaataagaa atcatggaga 300  
 aacaacggct gtgataa 317

<210> 40931  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A1

<400> 40931

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 tcattgtgtc caccgatatg gcacaggcaa gggaatgcga gaagtacagg gagcgatttg 180  
 ttggggcatg catgatcgca gacaactgcg ccaatgtgtg cctgggtgag ggcttcttgg 240

ccggcaggtg cagcaccttt cggcgccgct tgatgtgcac tatgcagggc taaacaagat 300  
 cgctccatcg ctgcgcatgc atcgacaacc tattcttaat aaagggcatt atttcggtct 360  
 tattt 365

<210> 40932  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-030-Q1-K1-A10  
 <400> 40932

tttccaagct cctcctcgcg attccaatcc acgcacgcct cctccgcttc cgctcgcctc 60  
 aggagattcg gatttgatta tattaccctg attcgtttaa aaggatgggt tgagctctta 120  
 tagtcagtga tggaacacaa ggaggcgggc tgccagcagc cggagggccc aatcctatgc 180  
 atcaataact gcggcttctt cggcagtgtc gcgacgatga acatgtgctc caagtgccac 240  
 aaggagatga taacgaagca tgagcaggcc cagctggctg cctcctccat cgatagcatt 300  
 ggcaatggcg gtgacggcgg gaaaggacct tgaattgctg catctgtaaa tgtg 354

<210> 40933  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-030-Q1-K1-A12  
 <400> 40933

cccacgcgtc cgccacgcg tccgtccacg cgtccgggag gttgatgttg aagtgccaac 60  
 tgatgaggat gagacaagtg aagaagagga ttcaactcca gaaactacag aggaagagac 120  
 agaagaagac gaagacgaag agaaagagaa aaagcccaag accaagacaa taaaggagac 180  
 tacttctgag tgggaacttc tgaatgatgt gaaggctgta tggcttcgca gcccaaagga 240  
 gggtactgat gaagaatact cgaagtttta ccactcacta gcccaaggact tcggtgatga 300  
 caagcctatg gggtggagcc acttcactgc cgaaggagat gttgagttca aagctttgct 360  
 ctttatttcc ccgaaagctc cacatg 386

<210> 40934  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A5

<400> 40934

cccacgcgtc cgcggaaga tcggcatcct gctggacttc gtgtggtacg agccgctgac 60  
caagtccgtg gaggacgagt acgcggcgca ccgggctcgg atgttcaccc ttggctggtt 120  
cctgcacccc atcacctacg ggcactaccc ggagacgatg cagaagatcg tcatggggag 180  
gctgccaac ttcaccttcg agcagtctgc catgggtcaa ggctcagcgg actacgtcgc 240  
catcaaccac tacaccacgt actacgccag caacttcgtc aacgccacag agaccaacta 300  
ccgcaacgat tggaatgcaa agatttcgta tgagcgagat ggtgtgcca ttggcaaaag 360  
ggcgtactcg gactggcttt acgtccgtcc atgggggctc tacaaggctc tgatttgac 420

<210> 40935  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A6

<400> 40935

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agctccttga agccggcgag cctgaacgcg ttcgacatca tcttcactc cagaggggttc 120  
gacctgtcaa gcctgttcga ggtggaccaa gagcagaagg ccagcaactc gcggttcacg 180  
accagaaaac cggcgtcggc gatagtgtca aagctggagc agatcgctga gacagagcgc 240  
ttcatgggtga agaaacagga cgggctggtg aagctgcatg ggttcaagca agggaggaag 300  
gggcagcttg cgatcgactg ccgagatctt cgatgtgaca ccgtgctttc acgtcgttg 359

<210> 40936  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A8

<400> 40936

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 cgtgaacatc gcaccggtgg aagactacga actgccaccg gaagcgtact cccatgcagg 120  
 agcaaggtct ccgggtccgg gaacgccgac gggggaggcc gtgaagaatg cggaggatgt 180  
 ggtgagcacc atgctggcca ggggcttcgt gctgagcaag gacgcgctgc ggcgcgcaca 240  
 gtccttcgac ggtcggcacc agcagctgct gtccacggtc acggcgcggg tggcgctcgct 300  
 tggaccgccg cctgggcctc agcgacaagt tcatgctcgg tacggccgcg gcccgcggcg 360  
 cgacgcgcgg cgtc 374

<210> 40937  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A9

<400> 40937

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 cgaccgcgtc gtgcctccac accgtcgacg ccgccgcttt agggttttgc tggggcaagt 180  
 gcagcgctcg gtgcgcgcgg gcaagcgcg gcggggcggtg gaccgcgtgc atgagctcat 240  
 gcggcctctg ctgcgaggag tgcaactgcg tgccgcgcga cattcatgac tgcccctgct 300  
 acagcaacat gttcaccacc ggccccaaga agatgcccaa gtgcccctta gactgagact 360  
 gtgaggtcgg ctcacactgc ggcattccatg 390

<210> 40938  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B1

<400> 40938

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 ttataatgac aatcgtttct ttgggaaatt cagatagtaa acaaaaagtg gctatttctt 180

cagaaacgca aggttgcttt acaattgtat tatgagaaaa tatttgatga tgagaaatgg 240  
 aggatctggc gaacgacttc atgagtatag ttgcagatag aaaagacaac actgacgatc 300  
 aaatggaacc atcaattttg gcacttgatc gcaacaacac atgtgagctt tttttgctga 360  
 taatctgatg gcaaaagcaa aatcatgaaa atatgatggc ataatgggta tttctgaagt 420  
 tatt 424

<210> 40939  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B12

<400> 40939

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 aggaattcag gaatgtggtg tttggggggc agctcacgga gggggccgac ggctcaaca 180  
 agacgaagag gaagacgggc tcctcgccca aggggaagga gacaacagg accgggatat 240  
 ccaaggccga gagcgccgcc gccgccgtcg caactgcctc ccgtgatcgt caggctagcc 300  
 acatcacctt ttcccaggac gggaccgttc ctaccaggaa ggcaactttc agggctgggg 360  
 tggcaaggca acgtgagctt aaccataccg tcgagagtga gggggac 407

<210> 40940  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-030-Q1-K1-B2

<400> 40940

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 catggcccgc ctcggcgccg gcgccgtgtt ggcgctccta gtggcggtcg cggcgngggc 180  
 cgcgttcctt gcggtgccgg cctcggcgaa gtcgggggag ctgagcgcgga tggggttgct 240

ggcggcgaag ggcggcagcg ggcggggccc tcataattgc tctggctctg tgggcgattg 300

<210> 40941  
<211> 246  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B4

<400> 40941

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aaaaaaaaag ggaaaataaa aaaaaaaggc gaaagctttc ttatgctata atataaaata 120  
atatatTTTTT aaaaatgggg tgttgaattt aaataaatca taatatTTTat tacaattgtc 180  
cgtacataaa aaacctttgg ttttacgaaa cttattatta attccaatta tattccatt 240  
ttaaaa 246

<210> 40942  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B5

<400> 40942

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tactggcctt gcagaggggtg aagcaggtgg agccggagaa cgcgagcaag atcctcggct 120  
gcatcctcct ggaggaaccc gacaaccagg atatgctgca gctcgcctac ggcaacgacg 180  
ccgaggtgca cgccaagatc agccacgcca aggccatgct ggacgccatc gtcgctgtgt 240  
gctcctcgcc ggccttcggc taccactact ggccgccggt gcccaataag gcgcaagcag 300  
aagagtacgc gttgcagccg cagcactaca agggcggagg gtgctactac gcctctgaga 360  
acgcgtcat ctacaatggc gggggg 386

<210> 40943  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-H4

<400> 40943

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catggtggtc tagaggctcg gcgactactt cgtagagcaa ggctgtgaa tggattcatg 120

tatccttgct cgcttggtcca tggttcgcag caacgatacc aacacccgca ttatttaatt 180

ggtagcctcc tctagctacg cacgcatttt tagtctccta cagcccttg gattgtgcgt 240

ggctctgtta atcatctctc atccttcgtc tgccatttct cccctgagat ttttgttct 300

tgttggtacc atgcattttg gcaaataaa 329

<210> 40944

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E6

<400> 40944

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gcagcatctt cctgaagcgc gctggcgtg ccgggctctg cctcgccgac atcggtgaca 120

tgatgacccg cgagttcacg gctcagcagg atgggctgag cacactcgag gcgctatgca 180

agcaagcgca cgactccgtc ctcccacacc cctcgccga cggcgacggc gacggcgtcg 240

acgagagtac aagcgtctcc ggcgggcgga aacacgtgct gttcggcgac ctgagcctcg 300

cggagtggac gtcgttctg gagaggt 327

<210> 40945

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E7

<400> 40945

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tgaattcact gtcaagcttg tgcggcctct actgacctg agaaggctga tgcatagatc 120

ggagtcgatg ttcacagtgc cctcaatgct gcattgaccg gtttaattgt ggcattttaa 180

attgtcttgt atttttcatc tacatgttta gagtgagtgt aagtttgcaa actcatggtc 240

atgggatgga gggaatgaac ctaaataaat tatactccat ctaaaacatg gacatatgtt 300  
tcttgtttcc tg 312

<210> 40946  
<211> 328  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-029-Q1-K1-F1

<400> 40946

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gagctcctat ccgcggttgc cgagaaatat gggatgatgt gccgattgga atgaagataa 180  
cactgctcta gtgtgtgaat tgttctccga acaagtgaag tcgcacaacc gttctgggtac 240  
ccacttagat aaaacaggag acaaaaatgg gatggacaaa ttcaaagaaa agactggggtt 300  
gtcctacacc aaaatgcagt tcaagaac 328

<210> 40947  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F2

<400> 40947

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cccgaacaa gtgcgtccta accggcattt gagcgcgttc ttgtccaccc taacctggtg 120  
ccttttacgg tcgcattcgc accgcgatga actacgccgc agccgccact aacgcccccg 180  
cggcggcgcc cgcggcagcg ccggcgtcgg gcacagaaca cgcgcactac ccgtattacg 240  
ctggctattc ttatccctac ggcgcctatc accaacctgc cccgccacg tactcctccg 300  
ccgtggccgc cgcctcgtca tctactact ac 332

<210> 40948  
<211> 184  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3075-029-Q1-K1-F4

<400> 40948

acgccaccgg aatcaccatt cggttcacca ataacacctt cgtgaacgcc accaacgagt 60  
acatgggtcat gatcctgata accatatgat tgttttaaaa gcagcagcag tctagtgtgaa 120  
gtaattgttc gttttaagat tctagctgat agacgtccta tcatagctag tcaaattaga 180  
tttg 184

<210> 40949

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F7

<400> 40949

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agcttgacgc taaaagaag atcttgacgg agactcttga gcgtcagctt gtgatcggtt 120  
catacattga gaagaagaag aaaagcaagc gtttctttcg ttggtagaag caaacagcag 180  
tgaattgttc acgcccacga gaaaaaagtt tatgcgtgtg atggaagcga gctgttgctt 240  
gcgtatgccg gcaagctgcg attctgagtg taacacataa ggatgttctt tcattcttct 300  
ttgatgttc 309

<210> 40950

<211> 105

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-G1

<400> 40950

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<210> 40951

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-G10

<400> 40951

ccaagacgca cacgggacgg ttcgttcacc aaacctacct tgggtgggccc cacttttccc 60

ccgaaccgta gcttcagagt gatccccctt tcacctcta tataat 106

<210> 40952

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-H1

<400> 40952

gagtacatgg ccaagtttgg acccctagac tattgtgtcg tcatgaagga gcggtcttgt 60

gggcgatctc gcgggtttgg ctatgtatca ttcgcctcag ctgacgatgc aaagaatgtt 120

ctggattgcy agcatgttct tgggagccgt acattagaag tgaaggtagc tactccaaag 180

gaagaaatga aatcacaagg atcaaagaaa gctacaagga ttttcgttgc tcgaattccg 240

caatcggtgg atgagtcgat gttgcgtgga catgttgaag cttttgggga aattcttgat 300

ctttacatgc caaagagtct gtggaca 327

<210> 40953

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E4

<400> 40953

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atggagagcc gcagcatggc atcatcggt gtgctcttgg tgctagccct tgcgcgagtg 120

gcggtcaccg acccacaggt agcggaggca aagaagaaga gagcggcgga gagcggcgag 180

gcggcggagg cgaagaagat ccaggacgac ttctgatcga cgcgtttcga gggcaagaag 240

gggacggacc tggtcgtgtg cgaggagttg ctcgctcttt tccagcagtc caacctggtg 300

ctgtacggca ggatccagtg caagggc 327

<210> 40954  
<211> 188  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-029-Q1-K1-H2

<400> 40954

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TTTTTgtttt tTTTTTTTTT cTTTTTTTTT tTTTTTTTTT gttatTTTTT tttgtTTTTT 120  
TTTTTTTTTT tttttatTTTT tTTTTTTTTT tTTTTTTTTT cTTTTTTTTT tgttttaata 180  
TTTTTTTTTT 188

<210> 40955  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-C12

<400> 40955

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cggaggcgga gaagaagaag gtcacgttcg tggTggaccc cagcggcaag ggcgactaca 120  
ccaacatcac cgcggcgctg gaggatatcc cggTgagcaa caccaagcgc gtgacCctgg 180  
accttaagcc cggcgctcag ttccgggaga agctgttcct gaacatcagc aagccgttca 240  
tcacgtttcg gtcggacccc aagaagcccg tcgtcgtggt ctggaacgac acggcggcca 300  
ctaacggcaa ggacggcaag ccggtgggca cggTggggag cgccacgctg gcggtggagt 360  
cggactactt tacggcgtag ggcgtcgtat tccggaacga cgcgcc 406

<210> 40956  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D1

<400> 40956

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cggacaacat gatgtattcc cacgggctga tgtttcttcc agtcttgacc ttttcgctca 120  
tctgtgctag gcaagtgagc ttcaacgtct ttttctcata cgtcttgaac tctcagaagc 180  
tcaccggttt gatcatgaac tccgtgggtgc tgctcacctt ggtgctgta ctctttag 240  
ccaaccatga aactcatgga cctattactg gtgggtgtcta aagacgaaag taccttctgg 300  
gtttcctggt gacagtagga gcatcaggca cctactcact cat 343

<210> 40957  
<211> 130  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D12

<400> 40957

acactgctct ctctcagcca tgctatttac ctccactacg gggagcatga tcaggcacia 60  
aagcttacat caataccacc tcgtagtgaa acacactcta atcaacattg atgacgatac 120  
atgttctact 130

<210> 40958  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D2

<400> 40958

gttttcaaca agggaaagat ccactatgat ctttatactg acatggaagc tcttaagttt 60  
atcctgatgg gattgtttga gaagcggata gctgggaaat tcttccttta tgtccaagag 120  
tataagtga atgacccaag tactcataag ggttacaacc ttactaaact aacgacaaaa 180  
gaacttatct caaaatatgg tttggatgat aatactatag actgttttgg gcatgcactg 240  
gctcttcata gagatgatag ctacttgaca gaacctgcaa ttgacactgt aaaacggatg 300  
aaactttatg cataaatcag gggctcgctt t 331

<210> 40959  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D5

<400> 40959

gtcttttaggg agttatggag ctgatcttgc ttgggtgctcc gaggtaggtt gggattatgg 60  
ggaagctggt acgaaagagt atctgaaaga tttccatcgg cggaggctct aggtttttgc 120  
ggaagcaggg cccgatttga ttgctttcga aacgattccc aacaaactgg aagctgaggg 180  
gtatgtcgaa cttctcgagg agtgcaacat caatatgcct gcatgggttt ctttcaactc 240  
aaaagatgga gtgcgtattg tgagcgatga ctcgtaatac gaatgcacta ctattgctga 300  
caagtgtgca aaggttgggtg c 321

<210> 40960

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D6

<400> 40960

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caaggagatc gctgataagc actggcgcta gggaccctta caaggataac taacgtgaca 120  
tggcatgaac taattaatgc tcctatatca tctgcctatc catgcatgca ttgcattgcg 180  
tatgcacact gtgcgtgcct gtccacaaag gtggacaaca caccgatctc gacggattag 240  
taatcgagtg cactcgatcg ttatatcgat ggatgcttgc tattatatct gtattccaca 300  
ttatatataa gaaatacaaa ttaaa 325

<210> 40961

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D7

<400> 40961

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cttaaccagc acgaacagca ttggttcgat ctttgcattg acaagaggac ttgcctacag 120  
ggcaaagctc gacgacaacg ctgactact tgacttcgct ctcaaactcg aggctgcttg 180

cgttgagacc gtggagtccg ggaagatgac taaagatctg gcgattcttg tccatggatc 240  
 ttccagcgtc acgagatagc cattacctga acacctagga ggatcatcgac gcattcgcta 300  
 ctgagctccg atcaagactg ggag 324

<210> 40962  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D8

<400> 40962

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 ttacagctgt ggcatctact ttagtacttt cgaaagatga agctcatttt gcctgtatgt 120  
 cttaaataata gtgctctgta ttaagcttat ctgcatcttt tttttttttg catatgacat 180  
 ctggtagtat taccgtcgag cctatgattt gttattgtta tggaataaca aactgaaatc 240  
 tcccgtcaga tgacattata ttgcttgtgt ccttgcttga cttactcttg catcgtgcat 300  
 aacagtattt ttttttcttt t 321

<210> 40963  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E1

<400> 40963

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 ccgccgcagc ctctctgccg acttccccac ctgcggcggc gcctgcagcc cgctggtggt 120  
 cgtcctcgag tccggctccg agggctcggg ctccgatcgc caccgacgcg cgctctccgc 180  
 gcgcctcagc tttggcatgg agcaggagca ggcattggcag gatcggaac acgtcgccgc 240  
 tgagaggca gcggagaaga atgacgaggt ggctgttccg gtgaagctcg gcaagggtcg 300  
 aaagccaggc caccgaagg agccgg 326

<210> 40964  
 <211> 214  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E11

<400> 40964

agatcgatct aggcggaggc acactattcg tcggtaggag ccaacaacgt ttacgaaca 60

cattcgactt ggacatcctc tgatgactct agacaaccga catgactacc acgcgaccga 120

tgcacatctg atgaattaat ccaatgtatt tacataatgg tcgatttact aaactaggat 180

ttgaaagctt gcgcgtacta tactattgct atac 214

<210> 40965

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-029-Q1-K1-E2

<400> 40965

cctcgtctca ccctccctcc cttacacaaa taataaggta aggtcccgcc cttttccttc 60

gacatgcaca agggggggagg ggaaaacact gtacattcac ccggcgggcaa taatggtctt 120

ngtaccggct ccggcgacga cgaccgccgc cgtcatccta tgccatgcg tcgtcctctc 180

ctgtgccgcg gctgaacgacc cgaacctccc cgactacgtc atccatggcc gcgtgtactg 240

cgacacctgc cgcgccgggt tcgtgaccaa cgtcacccgag tacatcgcg gcgccaaagt 300

gaggctggag tgcaagcact tcggcacc 328

<210> 40966

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A12

<400> 40966

acattggcgc ctttttagatg acggttggcg tcagagccat gaacgcgccg atactggaga 60

tcgtcatgag cttcgacctc gtgtacacgg aaaacgcgac agaacgtgac cccaagaagg 120

gcgactctgg catcataaag cccatcgcca tcggcttcat cgtcaacgcc aacatgctgt 180

ctcagagcgc cttcaaacgg gcctccatga accccggcgt ctccttcggc ccggacagag 240

tcaccgg

247

<210> 40967  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A2

<400> 40967

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ttgcgatagc tggaagattg ctcccgggtg aacaaggaaa cgtgtgaccg aggttgtagc 120  
aatggaggac ttctgccgta ataaggaag tgattgggac tgaaatttct ggagataaga 180  
tgctcttctg agaagcctgg ttatgtgagt aaaattgttt gtattccggg accatgataa 240  
ttaaacg 247

<210> 40968  
<211> 311  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A3

<400> 40968

gcaagcgggt cagggacttc attggttaagg ctttcgacga cgatgtacag tgactagctc 60  
ataggacaga acagggagcc agcgaactaa ggcaattaac acttcttaac ttgggtgggg 120  
ttagtttgtt cccacacaac aacagtgggt cttttaagta aaatcgtcgg agcaatctgc 180  
agtagatcaa aacacttgca tagtgcagca aaaggaggct tagatgggtt cttgtagcat 240  
ttgtgaattt taagcatttg gtgcgtaagt taaagctgaa taacacttca cttttaaaaa 300  
aaaaaaagac a 311

<210> 40969  
<211> 258  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A4

<400> 40969



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 gatgctgtg cgactctagg cgtagcctga gccactaca agggctagcg gtggatggag 120  
 ctgtgaaccg attacccata cgatccccctt accggtggag ggagaaacta gcctacgagg 180  
 ccaataaagc cagaatgggg cacgatgagg atcatgatca agggatgcgt gtggaagaac 240  
 acctacgact agaaactt 258

<210> 40970  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A5

<400> 40970

cccacgcgtc cgcaacgagg tgagctcgag ggagatggag aggggtgaacg tgctccgagg 60  
 catcctagac aacaacgtgt tcggcatggg gctcggcagc accgtgggtgt ttcagatcgt 120  
 gatcgtccag tgcttgggca gcttcgcca caccgacct ctcagcgctc gcagtgagg 180  
 cgctgcgtc gccatcgggt tcgtcatcat gccgctctgc gtggcggtga agatgggtgcc 240  
 ggtggagtat gcgggcctct cgatctctct cggagttgag aaactggagg caggcaagcg 300  
 gtcagtagtt gttggcttga aatg 324

<210> 40971  
 <211> 251  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A6

<400> 40971

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 cactggccgc actataccga agttgggcga atgggacgtg aacaacctgg tgtatgtcga 120  
 cgggttcacg gtgatcttca gcaaggccag ggatgagaag aaagccccgg cccaaggcca 180  
 catcagggac aggtcggcgt ctgtcgtcag caagggtctg aggtccagg atgagaagat 240  
 gacctgctac a 251

<210> 40972  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B1

<400> 40972

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cagttcacca agcaatatta cttcggagtc ctatccagga aagttcgggc catctagctg 120  
ttcttctgca caaagaaact caaaagtgc gaagaaaact gtcaacatac aaccaagaca 180  
gccagcaaat gataatgtta tgaacacaag cagagcttct taccottgtg agaactatga 240  
aactgaaaga agaggattag ggaaaagaac tctgggggat cctcaagtta caatgggtag 300  
ttcaatggta gtggatggct catttgtatc atctatgtcc tctgataact cagtcgaaga 360  
aagcagcttt caacaactgc aggatgctgt 390

<210> 40973  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B10

<400> 40973

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ctggagggtc tttagacaca tctacttttc tgtatcaagg tctgatttga tgtccgcgag 120  
tgaagagcat cgctcgctcc tagactagat caacgtcagc atcaacgaga acatccatga 180  
gtataagcac tcgtcgtcgt gctcctctc ttacgactca aacgatgaca aaaagcccaa 240  
taactctaag aagaagaagc ttcttggaag aaaacattca ttgcatcatg ttctcggagg 300  
aggc 304

<210> 40974  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B11

<400> 40974

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 gggcgtcagg actacctaca tcctaggggt ctacttcacg tgactccatt gaactctaca 120  
 gcctatatat gcacacactg gctcacgcgt ggacccgctg acaaccttct tgcacttggc 180  
 cgtcaciaaac caatgtctcc atcgtaagaa cagaacacct tcagctgatg accatcgcat 240  
 gcacatccca ttgacttggc gcgagcattt tgataatggc atacacc 287

<210> 40975  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B2

<400> 40975

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 tttttttttt ttttttctct ttttttcttt tttttttttt gttttctttt ttcttctttt 180  
 tttttttttc ttttttgttt ttttcttttt tttttttttt tgtttttttt cttttttttt 240  
 ttttttttct tttttttttt ttcttttttt tttttttttt tttttt 285

<210> 40976  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B3

<400> 40976

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 aagtactacc tgtacaggca catcatcttc gatatcctgt acaacaacga ccgggtgatt 180  
 gaaatcaatg tgcacactga tcagagtgtt ttgggtgacc ttacggagga taaggagaca 240  
 aatgtggatt tcctgtactc agtcaagtgg aaggagacac caacaccatt tgagaagagg 300  
 atggagaagt actccagctc cttcaacatg ccgtaccacc tggagggtta ttggttctca 360  
 attataaact cttgtgttac t 381

<210> 40977  
<211> 313  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B4

<400> 40977

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ataggttgag ccgtcaaaaa agaaagttaa gaaaactact gttccgggtcc atgagttggt 180  
ctatggggcc ttggctgcag ctgacctgca gaaggctgta tagaaagagt atgagatggc 240  
tcttcaagac agagtaatgg aagaaacaaa ggagaagaag aatgctgttg aagcttatgt 300  
gtatgacatg cgt 313

<210> 40978  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B6

<400> 40978

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cagatattaa tcttcttgag ctagccgcaa ggacaaagaa ctacagtgga gcagagttgg 120  
aagggtgtgt caaaagtgct gtctcgtttg ctttgaaccg gcagataacc atggacgacc 180  
tcactaaacc tttggatgag gaaagcatta aggttactat ggatgacttt gtgaatgcac 240  
ttcatgaaat tactcctgca ttgggtgctt ccaccgatga tctcgaaaga tgcagattga 300  
gaggtattgt tgactgtggt aaggcaca 328

<210> 40979  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B7

<400> 40979

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 ggaaatggaa gtaacagagc ataatttaaa gacacagctt gaaaatgctc tgaaggagct 180  
 agaggctgct caacataaag cattatctgc aacctttgga acagctgaaa atgctctact 240  
 ggaagctaag tcagtgtctg atcttaaate gaaagatttg gaggagaaga aaaggagct 300  
 tgaactattg gataacaagg tgca 324

<210> 40980  
 <211> 208  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-C1

<400> 40980

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 gacgcgagga gggcacggcc agcggcagag agaggcggcc tgggtgtgcac gtgcgcgcaa 120  
 gtgaggagag aagggtgttac agacactgtc caggaatggg aggagggaga caacacgaca 180  
 tcagaaattg gggagggcga tggaccga 208

<210> 40981  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G11

<400> 40981

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 ttcaccccgaggaggcggcag cctgctctgc actgccaaagg tgccatgcac cggcgtcacc 180  
 atggatgacg tcaacgtcga gtatagcggc accaacaaca agaccatggc tatatgcacg 240  
 aacgccaaagg gcagcaccaa cggttgcctc aaggagcttg catgcttcta gacctccat 300  
 cgactgaccc atctctctag ttataatttt tctctcgtcc ttgcattgcc cattagatgc 360  
 tatccattgg taacgcacaa cagtaaaacg acagacatcc gacagctata ttatgttcga 420

cggtgtaaca ccctg

435

<210> 40982  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G2

<400> 40982

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tggagagctt ccgggtggag agcccgcggg tgaagtacgg cgacggcgag atccagtcgg 120  
agtaccgcta cgacaccacc gaagtcgtcc cgccggggaa tggcggcggc gcggggtggg 180  
tggtgcgccc aaagtccgtc acctacaact tcaagaccag caccaacgtc ccaaagctgg 240  
gggtgatgct cgtcggatgg ggcggcaaca acgggacgac gctcacggtc ggggtgatcg 300  
ccaacagga agggatttcg tgggagacga aagagaaggt tcacaaggcc aactacttcg 360  
gtccctgac 370

<210> 40983  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G6

<400> 40983

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gaaggagctg cccataggga tggtttacgc tttggacgca aggttggtca gccagtggaa 120  
aatggtggac tggtcgaata cttctttggc aaggatggga atgaacatct acactatgat 180  
aagttctcta gttttttgaa gaaattgcat gatgagattg tccgcttgga gtttagtcac 240  
tacgatgtga aatcatccaa cacaatacct gttaaggcct ttgcgttata catggttgct 300  
tctgctgata tgatttacat agacaagtta ctggatagag ttgaggattt ggacgacaa 359

<210> 40984  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G7

<400> 40984

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agcgccaggt agccatgtcg tcgtccgtgc tgaggggtgc ggccgacagg gccattcgca 120  
ggcaggccct cacgtgacg aacgcctcgg tgtccaggat ccggcagctc ctacgcctaa 180  
ggcaacggcc atacctgcgg ctgggtgtca aagcgcgagg ttgcaacggc ctctcctaca 240  
ccctcaacta tgccgatgaa aagggaagt tcgatgagct tgctgaggag aaaggagtta 300  
aagtactgat cgacccaag gctatgatgc atgttatagg caccaagatg gactatgttg 360  
atgat 365

<210> 40985

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G9

<400> 40985

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ggcgctaag gactcggaga ttgcaatagc gcacgcagag cacaatgatc gacacacatg 120  
tgatgacgta tataggctaa aagcattagc cggcacatag atcaagactg atgcatgaaa 180  
agcaccacta ctacgtctac gtaagtctgg acaataagta tatgatgaca a 231

<210> 40986

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H1

<400> 40986

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tgccgatccc gctaccggag gcggaggcga tggcgggcggc gccggcggtta aggttcccg 120  
tcttcgggct cgtgcggctg ctgggcttgg ccgccgcggc ggcgatcctc ttctgggccc 180  
tccacttccg aggcggcatg gcgctctcca ccgaagagga gagcaagctc cccctcttca 240

acgttcaccc agtgtaaatg ctgattgggtt tgggtggcctt gaatggcgaa gctcttttgg 300  
 cttataaaac tgtgccagga accaagaaac tgaaaaagct agtgcac 347

<210> 40987  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H10

<400> 40987

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 cagcgaatga aggtgcttca aggtcaacat tagagaacca gtatgttaat aatgggactg 180  
 gaaactttac agagtgcata tcttcttcac aacttttact gcaaaaagga aaggattagt 240  
 gccacatgta tctcatataa atgcagaaaa gtgccagtat caacaatgtc acctgggatac 300  
 tacttttgta cctgaactgc gtggatactt cttgggaact gaaaatttct attttacttc 360  
 aaagctcttt ggacttaaga agtcttcata actatcttaa ttcattgtatg ctggagaaca 420  
 attttgcaat cagcatttgt cga 443

<210> 40988  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H11

<400> 40988

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 ctggatcgag atcgagaacg tcaagaacct tctaatgaac cgtcactgtt ccatctacgg 180  
 gcatgtagcc ctgggtgtgga gcaagaacca gttccatcgt tcttacaatt gcaagatact 240  
 tccttatagc ttgctgctgg atcttctgac taacgtccag atctctacga tgactctgct 300  
 caacagcaat ttcttccacc tcaacatctt tgagtgcatt aactatctga tcgacaaatt 360  
 gacgggtcaat gtcactcagt acagttcc 388



<210> 40989  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H12

<400> 40989

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gggttggggc aaggatgccc gcccgcctga actccacgag cccaagaaga ccgtcaaggc 120  
ggagtagcgg cgctgctgcc ttgcttctcg tgctgctgtt cctggattgg agaggtgatc 180  
tgacccttcc attgagttga atgaagtagc ctggaactgt ggtagttcgt cttttacatc 240  
ttaagctgct gatagacttc aaataaaatc ttgtccaaga aaacattctg tgagcgtaca 300  
tgttgtcgtc gagctgtgta attgagcata tcgtcagatt gaaactcgtt gtctgccttg 360  
gtcttcaaat ac 372

<210> 40990  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H2

<400> 40990

gcaaccagca cttaccaaatt cctattcatt ccgctcttgg agccaaaata atgtgggtcat 60  
gtggcttggt tgctttattg cgcaatttgg tcagtctgtt gttcgagcag actatcttat 120  
cctccgcaag ggttttataa tgaccacaaa tcttccgcca acatatgatt tccacaatta 180  
catgatacgc tcaatggaag aggagtttga gaagattgtc ggagtgaagt gactgttgtg 240  
gggcttcgtt gttgctttta tgttatttaa tgtagacgga tccaacctgt acttttggat 300  
agcaattctt cctgtaactc ttgttcttct ggtgggtgca aagcttcagc atgtgattg 359

<210> 40991  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H4

<400> 40991

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gttatccatg atccacagtt tggtaaaaga ctgccatcct tttctcctct aggagggagc 120  
tcctatggca aaatgccagc agtaagagtt gaagtaggct cgccatcttg cggcgtttagc 180  
agcagcccaa aagtaaggat cgaaggtttc gcctgtggca actccgagac ccattatgca 240  
gttacctttg tctgagcatt tcgttgatat gttcctgatt ttgccctccg accgaccgac 300  
cgctccttgt gaatcacctg ggtgggtgtgc aggatattaa gtagtgcatt taagctagcc 360  
tgattagagt t 371

<210> 40992

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H5

<400> 40992

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gggttgccac ctggttcata tagggaaacg gctcaactat ggaacagaga cattgtacga 120  
ctggaaagct atgcaagcac atagcttttc atcgctgata aagaggatta aacgtgccct 180  
tgactcgtat catgaattgc gtatcgacca tttgcaactg gcttgcgcac tttttagaca 240  
gtaccttctg atgcaaaaact agcactggtt ggaagctgca tggtcaacc aatgagtagc 300  
tatcttgaca 310

<210> 40993

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H7

<400> 40993

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ggggacattg tatgctaccg gcgatttggc cataatgaaa ttgatgagcc gtccttcacc 120  
caacctaaga tgtacaaggt gattaggaac catccaagtg cgctagagat ttatcaaagg 180

aagttgttag agtctgggaa gatctcaaag gaagatattg ataggttaaa caaaaaggtc 240  
 agcactatac ttaatgagga atttcagaac agcaaagact atgttcccaa caagagggac 300  
 tggctttcag cttactggac tgggttcaag tcaccagagc agatttcgcg tatccgaaac 360  
 accggtg 367

<210> 40994  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-028-Q1-K1-G10

<400> 40994

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 attggacgtc gccagtgtcg aggagtacaa gcagaaggcg ggcttggtgt cgaagcgggg 120  
 ccggacgtcg acaggcagca actaactacc gtgaccatcg tcaccgttgt ggtgggttctt 180  
 cgccctccgt gcctttcttc cctgtccga tagccgacgc cgggtgcgaga tctactcccc 240  
 cccatcctcg cttcaacgag cacctttctt taatcggtta ggtaagatcc actttcctag 300  
 tacacggagt taatgtctag tgcttcatac tntggcaatc ctttgatttg gtcagtacgg 360  
 ttcgtatatt tgtgaaattg gttgacaatg ttcgtgcatg tgcgaccatg gaatacctat 420  
 ccgctctaag atctggtaga 440

<210> 40995  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H8

<400> 40995

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 tcaattgtgg tgcattgtcc tgggtctagt gctacaaact gtggaccacc cattccaagt 120  
 tgtgtagtgg gtttcggatg ccttggtgaa agcctttgca ttccaacacc taaagtgggtg 180  
 gacattgcgt gaggctggct tcacagagca gcgagtaccg cccgccacca gcggtggaag 240

gataatgagt cgctatgcta taggccaaatt gaggcacatg tgccctctct ggtagaccac 300  
 tatctttttg ctatttttct tatctacttt tgttcttatg taaccattac gagtatcacg 360  
 tttttggt 368

<210> 40996  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E7

<400> 40996

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 agcagtcac cgtgctctct gcacgtctc cctctcccc cgogggogcg ctgogcgogc 180  
 ggtctcccc ggcggcagcc cgatcggtgc cacctgcatg acggggccgt acccgagct 240  
 gtgogtgggg gagctgggac agcggctgct ggacgtgcag acgtcgatcg cgtccgoggc 300  
 gcccgaccag cgcggggcca ggatcgoggg cgcc 334

<210> 40997  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E8

<400> 40997

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 tatgccagct acttacacga gcacaataaa ctacgacgga tgttgagca catgaatgct 180  
 ttacatgatg agaatcatct aataactggt cacttgagtg acgcctgact gacaaagaga 240  
 gagatctact gatgaatggg ctgatatctc tactaaagag tcacatgtag acacccatga 300  
 acttcatgat ctatgtcaac gtcgacgaac agc 333

<210> 40998  
 <211> 422  
 <212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3075-028-Q1-K1-E9  
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 gtggacaacc ttgtcatcac cggcaaggga aagctcgacg ggcagggggcc agccgtgtgg 120  
 agcaagaact cctgcgtcaa gaagtacgac tgcaacatcc ttaccaactc gctgggtgatg 180  
 gacttcgtga acaacgggtga ggtgtccggg atcacactgt tcaactgcaa gttcttccac 240  
 atgaacatgt acaagtgcaa ggacatgctg atcaaggacg tcaatgtgac tgcacccggg 300  
 gacagcccct acacggacgg gatccacatg ggcgactcgt ccggcgtcac catcaccaac 360  
 accgtcatcg gcgtctgcga cgactgcctg tccatcgggc ccaggacctc caaggtgaac 420  
 at 422

<210> 40999  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-028-Q1-K1-F1  
 <400> 40999

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 tcctcgccgt ggcctcaccg gctgctctgg ccgccttcga tgtgatagag atgctggccg 120  
 acaagcccac gtactccacg ttctgaagc tcctgcagga caccaaggtc gcgggcgagg 180  
 cgaatcagct ccggtcggcg acgctactgg tcgtccccga caaacttgcc aagcctctgg 240  
 cgtcgtgcc cgccgataag gtgcggccgg cgggtggagaa ccacgtcctt cttagttact 300  
 tcgaccccat caagctggac gagatgaaga cacgcacc 338

<210> 41000  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-028-Q1-K1-F10  
 <400> 41000

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cgaacgccag gttccttgga ccactatata caggagcgac gaagtgatcc acccgccagc 120  
catggagatg aagaaggtec tctgcgccgc cctcgtcgcc gccgcctcgg ccacgcgcgt 180  
gctggcctcg gtcgcctcgg agggcgccctc cgaggcgccc gccggcgcggt ccggtggtgc 240  
ggctggccct agcgcaagcg ggcgcgccgc cgccgtcgtg cccgcgcgtc gggcgctcgt 300  
cgctctcttc ctgcctact acctccactg agcgacgacg cgcgggggcg caacgttggg 360  
atgcatcgtg tttggttcat ccgattaatt aattggtttt tttatttacg tggtttgca 420  
ttggttaatt gtttgttt 438

<210> 41001

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F11

<400> 41001

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gaaggaaata aaccactggt agtttatgag tacctagaga atggaagcct tgataaagca 180  
ttgtttggaa acgggaaact gaacctagac tggccaacac gctttgagat atgcttaggc 240  
attgcaagag gcctcgctta tctccatgaa gagtctagca tccgtgttgt gcatagggac 300  
ataaaggcta gcaatgtctt acttgatgca aacctcaacc ctaagatctc ggatttcggg 360  
cttgccaaac tgtatgatga caagaagact catgtcagca cgaaagttgc ggggtacaatt 420  
ggttatcttg caccga 437

<210> 41002

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F12

<400> 41002

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ggcctctccg tcctctagcg accgaccaac gcgccgagcg aagatgtcgt ggcagacgta 120  
cgtggacgag cacctgatgt gcgagatcga gggccaccac ctcacgtcgg cggccatcgt 180  
cggccacgac ggcgccacct gggctcagag caccgcgttc cccgagttca agcccagagga 240  
gatggctgcc atcatgaagg atttcgacga gccggggcac ctcgccccga ccggcctgat 300  
cctgggaggg accaagtaca tggatcatcca aggcgaacct ggagctgtca tccgtggcaa 360  
gaagggatcc gggggcatca ctgtgaagaa aacagggcag tcactcatca ttggcatcta 420  
cgacgagccc atgacttccg ggcag 445

<210> 41003  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F2

<400> 41003

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gcaaaggcct gcgacggttt gagttgcagt gtggtctgtc attgtcagg agctgcctcg 180  
acggtggcaa gaactggcat ctcgtgcagc agatccccga ggtgcgcac ataagctgcg 240  
atggcaagag atactttcgg tataacaaga gccgccgat ctacgaaact aatgcacagt 300  
cagaagaatg aagccatttc tgaaaacctt ggcacgacac tggtttgttt tgggtcagcc 360  
acacgtttca 370

<210> 41004  
<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F3

<400> 41004

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ggcaggcgcc gctctccctc tctccactcc cgcgcgtgaa gactccagag gtgccgagtt 120  
gctcgtgcg actccttcgt cgccgtccac ggaagcggag gccggcgacc aacctccccg 180

cgcggcgaag ggtacaggcg gccggatccg ttgggcctca cgcgaggaga gccacgcgaa 240  
 cggattcgac gaccgatgag tccggatcga agcttccact ggccgacttc atcgccgccc 300  
 tcgcccgttca accctgtccg tcggcgattc aacgaggctc cttccccggc tgggtgt 357

<210> 41005  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F5

<400> 41005

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 cgtggacgag cacctgatgt gcgagatcga gggccaccac ctcacgtcgg cggccatcgt 180  
 cggccacgac gggccacct gggctcagag caccgcgttc cccgagttca agcccaggga 240  
 gatggctgcc atcatgaagg atttcgacga gccggggcac ctcgccccga cgggcctgat 300  
 cctgggaggg accaagtaca tggatcatcca aagcgaacct ggagctgtca tccgtggcaa 360  
 g 361

<210> 41006  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F6

<400> 41006

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 gccaccgctg acggctgcta cgacgactgc tacgagcggg gcgccaacgg caagaaggac 180  
 gaccccgccg gcaccaagat gtgcaaccag gcgtgcgcca gcaccgacaa gggcgccgcc 240  
 gccggcgcgc cggcttgatc gaccggggtc tcatcggcgc gcgggctcag ctcgatatca 300  
 gcatcatata caatcgctgc tccgtcgctc acgtcagccc atgcatgata tctcgacccg 360  
 gccattg 368



<210> 41007  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F7

<400> 41007

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ctcatcatcg ccgtcatcat cagcactggg atcaaccca aggccaagcc ctactacctt 180  
tttgatggct acgctcacct ttcgtccggg cttgcctgtg gccttgctgg gcttgagct 240  
ggcatggcca tcggcattgt tggatgatgct ggagtcaggg cgaatgcaca acagccgaag 300  
ctttttgtgg gcatgatcct catcctcatt ttcgcagaag cgcttgc 347

<210> 41008  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F8

<400> 41008

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gggagagcgc cgaggtgata gagataatgc tgtgggtggg ctcattggtt gatgaatggg 120  
ggtgtcgggc tatgcgcggt tgacgtcctc attggagcat accccttcac cgttggttgc 180  
ctcgtgccgt ggcctgcgaa gtcgatgact gtcattcatg gtaggaggtc ccgaccgacc 240  
gtgcaacctg gtgcacgacg ctgtggcatg tgcgccaatg acatcacggt caagaacagg 300  
taccacagga tgaggcgctt ggacgatgct gagatgagtt 340

<210> 41009  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F9

<400> 41009

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tgtctcggga tgttattcta gcctgctggt gagtgggtgac ggcactccca ggcgcccccg 180  
aagtccagcg accattcggt tcagttcagc cctggagtcc gatgatccca caagcaacac 240  
ggccgccagc gtttccggtg ctcttgctga gctcgtgtac accctttcca agatcatcgg 300  
cgtcagcgtg aacaacaaca gctctgccaa tgattgagtt tggcccagtc agtgtgatct 360  
ggctgtcggg aacattaatg tttgcaacac catctgctcc agctgtcaca tttccaagat 420  
caccggcatg 430

<210> 41010  
<211> 370  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-028-Q1-K1-G1  
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cggcttcagg gtacttcacg tggtcaggcc ctttctggct ttcttgccag aagtgccgag 180  
cgcggatagg aagataccat tcaaagaaaa agttatctac actgttattt ctctcttcaa 240  
ttttctgggt tgcagccagc ttccactcta tggcattcat tcgacgactg gagctgatcc 300  
tttctactgg atgcgtgtta tcctcgcac aaaccgtggc actgtgaagg agttgggtat 360  
tacttcaatt 370

<210> 41011  
<211> 366  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-028-Q1-K1-E6  
<400> 41011

cccgggacct ccaaggtgaa catcaccggc gtgacctgcg gccccggcca cggcatcagc 60  
atcggcagcc tagggcggtg caaggacgag aaggacgtca cggatatcaa cgtcaaggac 120

tgcacgctta agaagacggc caacggcgtc cgcatacaagg cgtatgagga cgccgtctcc 180  
 gtgctcaccg actccaagat ccaactatgag aatatcaaga tggaggactc gggctacccc 240  
 atcatcatcg acatgaagta ctgccccaac aagttatgca ccttcaatgg tgcctgcaag 300  
 gtcaccgtca aggacgtcac cttcaagaac atcaccggca ctttctccac cccggaggcc 360  
 gtcaac 366

<210> 41012  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D1

<400> 41012

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 agaccggcat cagcatgggc ctggcagcgg cgtggaggac ccggcgacgc tgctgcggcg 120  
 ggtgcagacc cgcgcgcca actcgacgca ggtggtgggg ttcttgacgc tgctcgtctc 180  
 tggcgccgtg ctgctgctgc tgacgggggt gacgctgacg ggcgccgtgg tggcgctcgt 240  
 cttcttgggc cccatcgcg cgtctaccag ccccatctgg gtgcccgtcg ccgtcgtgat 300  
 ctccgccatc gtcgccgccc cgtctctcgc ctgcgccttc gccgcgctcg tgcttcccgt 360  
 gggca 365

<210> 41013  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D10

<400> 41013

accgaagaga gaaacgcgag caaccagcga tcgccccatg gccgccatgg ctcgttccgt 60  
 ctccctcgtc gtggcgcccc ttctctctct ctccctctct gtctccgccc cggccagtgc 120  
 gcggaccgtg ggcgacaccg tgcaggacgc gtgcagcaag acccagttcc ccaagatctg 180  
 cgtggacagc ctgcgcccca agccggagag ccagaaggcg acgccgcgca agctggcgga 240  
 gctgttcgtg aacatcgcg ccgagaaggg atccgggatg gccaccttcg tgcaccgcaa 300

gtacagcgac aaggaggaca ggcacatatt caagtgtctac gacagctgct ccgacgacgt 360  
 ggaggaggcc gtcgcccacc tcaacggcct cgtccgggag cccaccgacg ccaagttcct 420  
 cgagctcaag tcgt 434

<210> 41014  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D11

<400> 41014

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 aaaatatcta caatttcctg aaagttcaga tgagagttgg tggtttggca attgcatact 120  
 tgctttggct atcaacaagg tcagagcatt ttgtgatatg ggggacatgg ttgttctagt 180  
 ttccactctc ttgctctctc tctttttctt tttcgttcac caatctttat tgttatgtga 240  
 cagctagaga ttgcaagctt tgtttattat cgtggttgaa catgatagaa gctc 294

<210> 41015  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D12

<400> 41015

aaaccctctc ctctcgagaa gcagagcggc ggagatccgg agagaagcca tcggcagccg 60  
 ggaagcccgt cgcgtgcctt tcttcctcga cgtgccatga ttaacggaat atttgagcac 120  
 tgggacctgg agcgacagtg aagtgtgacc caggagagtt ctggtgccat gtttcacagg 180  
 ctattccatt attcccaaaa gcagatgatt tccagtgatg gggatgaatg tgagaggtca 240  
 aatgaagaag atgaagactc caaaggactt ctactcgaaa gtgaagtagc attcatggac 300  
 tatgttaggg aagttcgta ttaggcaact gaattgtggg tttgcgttta ctgctacaaa 360  
 cgggctctaa ggcagcatca caatgtccga tgcgtatttg attattgtgg gttgttgga 420  
 agttgctgtt ttttctgctc aaca 444

<210> 41016

<211> 269  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-028-Q1-K1-D2

<400> 41016

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cagccagacg gtggcggaga ggctggagcg gatgcaggac gcgtgcatac ggctgaaccc 120  
gtctctgtac ggacgcgact accgcattgca ggctgtcatg ggctagctgg gcgtgccgtt 180  
gacgaggcag cccgtgcttc accagtacga cgtgtacggt gaccttctgg gacttctcgc 240  
agcgcaccgc gacgtgccgc tcgtgtcgc 269

<210> 41017  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D3

<400> 41017

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gacccgcgct cgcgctcccc ctccccacgg cagggcgggc gcgccatgtc ggccgcgagc 120  
tgctcatcgc acccggacgg cagcgcgctc gtcgagctcg tcgccccgctc cgaccgcctc 180  
ccggcgctga gcgcggaggc cgaagcgcta ccgtgggtgc gcctcgcccc cggcgacctg 240  
cagtgggcgc acgtgcttcg ctagggtg 269

<210> 41018  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D5

<400> 41018

gcttcctgca gcggatggac ctgtgccgca aatacgcctt tggcaagatg cttgtggtag 60  
gctctgagcc ccctttcaag gtcaaggggc tctggctctt caggggctca gaaattccca 120  
agtttgtcat ggacgaagtc tatgacatgg agctttatga gtggaccaag gttgacctct 180

ctgatgaggc acagaaggag cgggtcaatg ccatgattga ggaccaggag ccattcgagg 240  
 gcgaggcctt gctggatgca aaatgcttca agtgaggaaa gagtttttgg gtccaattct 300  
 aaaacagcca tggattatag tttgtgatat ggcgtgctgg ttatgatta 349

<210> 41019  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D6

<400> 41019

attcgatcca aaaaatagac aagaagataa tataccgaat atgggaaatt cttcatgggt 60  
 ggggtctttgt aaaataaaaa ggtaaaagaa aactaaaaaa tataaaataa cataaaaaaa 120  
 tactatttaa caaaaaaagg gaggtctatc caaagttcct ttataatctg tactaatgtt 180  
 tttttggttt aaaagttttt tta 203

<210> 41020  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-028-Q1-K1-D7

<400> 41020

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 caatttatag gaaagctatc gtggaagtca atgaaatcca gctctggcag cgggggggtcg 120  
 ccgccggcgc cactatcgtc gccgcgggag aatggagcct caccgcggga gaatggggcc 180  
 acggggaagc cgaacgtctc gctcgggtct cccgcggctg gcgccggagc cggagccgga 240  
 gccggagccg aagtgaggtc cagggaggac gcctttgtcc agaaagttaa catttgctgc 300  
 gcggtgtacg acttctncga ccgaagcaag gactcgccgg ag 342

<210> 41021  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D8

<400> 41021

agtcgcacta ggaacttact acattcttgc tctatagaaa ctgtcaggct tgtgagagtt 60  
ctgttatgta ccgcttcttt tctaaagaaa aatagtagag ttttagaaaa cataatgaat 120  
acagcttctt ttattgaact cttagaagta ctccagccat tgtagtttaa tttatctgca 180  
tacagttggt tgtattgaac actgggacac cctgaggtct ttgttggtca attatgatta 240  
tatttctgta tactttattt ttaatgggta atcaaaatgc tagcttatat aatgctccct 300  
caaatgcagg ttgcaatatt ttccagcata gcttgctcac ctacttctca atttagaaga 360  
c 361

<210> 41022

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-028-Q1-K1-E10

<400> 41022

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tgctggctct cttctgcac gtgcatggtg agaaggaaga gtcaaagggc atcgatgcga 120  
aagcgtacgt gcctggtggg tacttcgaca tcaccaagtt gggcgcttc ggcaatggca 180  
tgacagacag cacgaaggct gtgcaggagg catgggcatc tgcgttcgga ggcactggga 240  
agcagacaat cctcatacc aaaggcgact atcatgtccg acaactcaac ttcacaggcc 300  
ctcgcaaggg cgacgtgacc attcaggtt atggcaatct gctggctacc actgacctaa 360  
gccagtacaa ggaacatggt cattggatcg agattctacg cgtggataac ctgntcatca 420  
ccggcaaggg aaaccttgac 440

<210> 41023

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E12

<400> 41023

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 ggagaagctg ttccgtagca agaggcttga ctccgagatc ttctttgctc cttcaaactg 120  
 attcattegc cgggtgaaaa tgggtccatcc atctcgagta aacttggtgt cctgggtgtg 180  
 ttcttttagca gcttcagttt agaataatca gggtatgtct tcatcatcag ttttttagat 240  
 cggttcatgt aataataaac ttgagatggg acacatgttt cttaattagt tctcttggtg 300  
 ttcttttaaaa aacaaacaca gtcctaaatg tgaacatg 338

<210> 41024  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C9

<400> 41024

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 gagggcgga gaggatgagc gcgtccaggt tcataaagtg cgtcacgggc ggggacggcg 120  
 ccgtcggcaa gacctgcatg ctcatctcct acacctcaa caccttcccc accgactatg 180  
 ttccgacagt gtttgataac ttcagtgcc aacgttggtg tgatggtaac actgtcaacc 240  
 tcggcctctg ggacactgca ggtcaagagg attacaacag actgagacca ctgagctatc 300  
 gtggagctga tgtttttctt ctggctttct cactgatcag taaggccagc tatgagaatg 360  
 tttcgaagaa gtggatacct gaactgaagc attatgcacc tgggtgtgcca attattctcg 420  
 t 421

<210> 41025  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E4

<400> 41025

ggaaagggca aaaaggcagg aagaggcacc actgattgag caagcttttc aaaaacgtct 60  
 tgaggaagag aagatccttc acgagcaaga gcagcttcgg gagattgaac tcagcaagca 120  
 acaccatgcc agcgacttgc aagagaaaaa tagactttca cggatgttgg agcacaagaa 180



tgctttacag gagagaatca tccaagaacg tgcagctgag tttggccgctc tgaagaaaga 240  
gagagatgaa cggatgaatc ggttgatata ttcaagaaag cgtgaaaggg agacagtaag 300  
gaagttgatg ttttatctga acctggagga acagcggatt gaaatgctac gtgaggaag 359

<210> 41026  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E5

<400> 41026

cggacgcatg ggccgtgggc tcgaagaagg cagcctctaa ctcgtaaccg gcaacggcac 60  
catccagggc tatcacggat gccgagcagg ctggtagata ccgacacgcc ttactctcag 120  
acctacgcag ggcaagaagc aaatactgga caccatgctc ctctagctg ctactctta 180  
agagctggaa gatctattgc tgggactcag aatgttacia gcctgcacaa ggatgaagca 240  
tggaacgtga atgtacacat ccatggctga gatcttgaac agggtcatac atgtggaacg 300  
atcgacgcgc ttaatgttcc attagcagat 330

<210> 41027  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B2

<400> 41027

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ctcttaagct acgcatatac attggtctct atttgcaaga gcctttcaaa gatccaacaa 120  
agagaaaggt aatgcatggt gcggatcgtg atataatgtg gctccagcgg gacttccaca 180  
tctatgtgtg caatcttttt gacacaggac aggcttcaag ggtcttacag atggagagaa 240  
acagccttga gcacctattg cttcattttt gtggagtaac agcaaagaag gagtatcaaa 300  
atgcagactg gaggtcgaga ccacttcctg atgaaatgat caagtatgct agagaagata 360  
cacacta 367

<210> 41028  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B3

<400> 41028

tgattactag gtttttttaa aaagaattga taataaacat ccgataatca atcaagcgca 60  
tacaaagaag atgatcaaaa tgcaaataaa taattaaaca cttaaaaagt attacccctaa 120  
ttaatataat aactaaattc attattttta attgatggct tttatgggtg tacaataaga 180  
aacataatac ttcaatctta ctaatgttta aagcaaaaat cttgggaaga atgggtgcaac 240  
aaacacaaaa actctgccac ggtagcacia cctgtctctg tgatgatcta aacaattttt 300  
ttcttttcat gaatgttttt tgctttgttt ttgggacagt cttacttgat tctt 354

<210> 41029  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B4

<400> 41029

attcactgga gatgactgtt gtgagtatca tgtggtcggt agtgcagggt cagggtgctgg 60  
tggtgggtggc actagcattt ctggtaggcg gtgcctgggt tggctcctccc aagggtcccc 120  
cgggtaagaa catcacggcc aaatatggta gtgattggct agatgccaaag gcgacatggt 180  
atggcaagcc gacagggtgt ggccccgacg acaatgggtg cggctgcggg tacaaggacg 240  
tgaataaggc ccctttcaac agcatgggag cgtgtggcaa cgtccccatc ttcaaggacg 300  
gtctaggttg tggatcctgc ttcgagatca agtgcgacaa gccagcagag tgctctggca 360  
agccccg 366

<210> 41030  
<211> 279  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B6

<400> 41030

aaaatatgga tccaaagagc catctagcgg caagatgtct tcaaaccatg aaagcttgca 60  
 tccaaggaag actgtttag aattaccagt ccgtgtggac tttgttggg gttggagtga 120  
 tacaccttcg tggagcttgg agcgtacaga ttgtgtttt aatatggcga taagggtatg 180  
 aggaagcctt ccagtcggtg ctatcgtaga tacaacagat taccaccttg gagtaaggat 240  
 cgaagacgac tctttagac atgtttatat cgatcatct 279

<210> 41031  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-028-Q1-K1-B8

<400> 41031

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 tctcctggga aaggcatccg gtttattcgt gctgattctc aggttttcct ttttgccaac 120  
 tcgaaatgca agcgtactt ccacaaccgc ctgaagcctg caaagcttac ctggacagca 180  
 atgtacagga agcagcacia gaaggacatc catgctgaag ctgtcaagaa gaggcgccgc 240  
 gccaccaaga agccatactc gaggtccatt gtgggtgctt tcttggaagt gatccagang 300  
 aagagagctg agaagccttg agttcgtgat 330

<210> 41032  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B9

<400> 41032

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 caagaacatc accggcacct cctccacccc ggaggccgtt agcctgctct gcactgccaa 120  
 ggtcccatgc accggcgtca ccatggatga cgtcaacgtc gagtatagcg gcaccaacaa 180  
 caagaccatg gctatatgca cgaacgcaa gggcagcacc aagggttgcc tcaaggagct 240  
 tgcattgttc tagaccctcc atcgactgac ccattctctt agttataatt cttctctcgt 300

ccttgcatg cccattagat gctatccatt ggtaacgcac aacagtaaaa cgacagacat 360  
 ccgacagcta tattatgttc gacgggtgtaa caccctgaat ttgagggtat aaaatttctt 420  
 ctccaaatac caaccaaatt ta 442

<210> 41033  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C1

<400> 41033

ggcgggagtg cttgatgagt aagactggct tctggggctg atttgcttct gagttgttta 60  
 ttttatatcg tcgcaatttc gtggttgctg attggttatt ctgtgaagca gccaaagccaa 120  
 gctattgtta tgaaaatttg tcgtctgtaa gcatgtgaac tttctacgtt gccacatgct 180  
 gcatcagtct taataagtaa gtatgcagct ctaggtggtc agctgcgtct accacaatga 240  
 gcatgtacgt attgagaaat atctgtgaac ccattttgct tatgaataa 289

<210> 41034  
 <211> 78  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C10

<400> 41034

tggtcagcat atctgtcgcg ttcacttgaa attacagctg catccggctg atgcaagagg 60  
 gactatcgca atctagtt 78

<210> 41035  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C11

<400> 41035

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 ccgggagccc accgacgcca agttcctcga gctcaagtcg tggctctcct ccacgctcgg 120

cggcacctcc acctgcgagg acgcctgcaa ggacctgccc aagaccagcg acaaggacga 180  
 cgctgtcaac ttcagcctcg acttcgagaa gctgcagcgc gtcacgctcg acctcatcac 240  
 cgaggcgctcc ggacacatgt ccgcaggcat cgccctgccca cctccaacg ccggagcgcc 300  
 ctctacggc gcggcgggcg cttccggggg ctccgccgat gccccgcgcg ggcctccga 360  
 gggccctgcg agcgccagcg gcccgctctgg tgacgacgcg ccggcgctccg gtgctggtgc 420  
 cagcgctcg gctgctg 437

<210> 41036  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C12

<400> 41036

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 cgacaactgc cgcgccgggt tcgagacaaa cgtgtccac gccatccaag gcgcgacgg 180  
 ggagatggag tgccgccact tcgagtcgca gcaggccac gacaaggcgg aggcgacgac 240  
 gggccccggc ggctggtaca ggatggagat cagcggcgac caccaggacg agatctgcga 300  
 cgtgcgcctg ctcaagagcc ccgaggcgga ctgcgcgag atcgaccact ccgcgaccg 360  
 ctgccgcgtc ccgctcacc gcaacgacgg catcaagcag agcggcgctcc gctacgcc 418

<210> 41037  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C3

<400> 41037

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 gtggatagca agaataatga cagggttgtc gtacctgaag ggttaaagga tatcgaagat 180  
 tcaggttatt ttgtaacata tctacaccat tatgttaagt atttacacct tgacattgcc 240

cgaagaccag ttgatgtttt ggagaaacct gatgtcttct tagagcatat t 291

<210> 41038  
<211> 274  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C4

<400> 41038

tttcacggga cctgagacgt gcttctgtta gattacacac tcgtgtttct gacagctgcc 60  
cgacactgtc atgagcgaat tacatggaat gtcacccctt gtagtttaca caccattgca 120  
tgcaattcac taagcctcat tgacataccg ggcataact accgtaatga ggtttaactc 180  
tatagccaaa tatgatgac gacacaatcc acttaatat atatttacct acttttacat 240  
tgtcacgtgg ataagtcctt tgatcctgta aaaa 274

<210> 41039  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C5

<400> 41039

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gggatgccac ttgcgacaaa tcaagagagg catcataatc ctgacctctt tcctaaacta 120  
taacatgcag tgctggctcc tgagaccgtc tgtgcaagag acaacacctt caaacacaaa 180  
ggcgatcaca tagacagtac accctactgc ttactccagt tcaacctgcc gattgcccctt 240  
tcgaccgtgg taacatccaa agagcgaatt gtataactga caccagctca ga 292

<210> 41040  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C6

<400> 41040

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ctcgagctca agtcgtggct ctactacacg ctcggcggca cctgcacctg cgaggacgcc 120  
 tgcaaggacc tgcccaagac cagcgacaag gacgacgtcg tcaacttcag cctcgacttc 180  
 gagaagctgc agcgcgtcac gctcgacctc atcaccgagg cgtcgggcac catgtccgca 240  
 ggcatcgccc tgccaccctc caacgc 266

<210> 41041  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-028-Q1-K1-C7

<400> 41041

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 cactnccgtc aactgtctca aggtatggat gtctcattgg tcccgacgaa tcagctcggg 120  
 caccgcttgg acgcgtcggg catacaacgg actgtagcgc ggctgaaccg atgaaccgac 180  
 cgttcaccgt ccaggagcta gtccgattcg ccgtctatga gcacaacttg aaggccaatg 240  
 ctcttctggg gttcgagaag cttgtgaagg ctcaagacac aggtgggtgc tggcacgatg 300  
 tactatctta gtttggaagt gaaggatggc gaagctaaga agctctacga agttaacgtc 360  
 tgggagaagc catgggagaa ctt 383

<210> 41042  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C8

<400> 41042

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 ggcgtaccac ttcgatttgg caggcacggc gttcggcgcc atggccaaga agggtgagga 120  
 ggagaagctg cgcaaggcgg gcatcatcga catgcagttc cgaagggtca agtgcaagta 180  
 cggctccaag gtcaccttcc atcttgaaaa ggggtgcggc cccaactaca tggcgctact 240  
 ggtcaagtac gtcgacggcg acggtgacat tgtggccgtg gacatcaagg aagaagggtc 300  
 ccgacacgta cgagcccctg aagcactctt ggggtgccat ctgtaggaag gacagcgac 359

<210> 41043  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H7

<400> 41043

atcgatcacg acaagatggc gtgcacaaac aatgcatga gagccttggt cctcctgggc 60  
ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgctc 120  
gggcctgggtg ggtccttcga catcaccaag ttgggcgcct ccggcaatgg caagacagac 180  
agcacgaagg ctgtgcagga ggcatgggca tcggcggtgcg gcggcactgt gaagcagaca 240  
atcctcatat ccaaggggtga cttccttggtc ggacaactca acttcacagg cccttgcaag 300  
ggcgacgtga ccatccaggt ggatggcaat ctgctggcga ccacggacct aagccagtac 360  
aaggaccatg gtaattggat cgagattcta cgtgtggata acctgggtcat caccggcaag 420  
ggaaaccttg acgggcaggg cccaaccgtg tggaacaaga ac 462

<210> 41044  
<211> 256  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H8

<400> 41044

gtgttactct tttttttgtg tgtgtctcct ggcaatagct aattatgtca aaactgtcat 60  
tgataccacc ttttccatta atcattcctt aaaagaatgt gtaaatagat tcctatgtgt 120  
ggtccatgat gcagatgccc ttcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
gggcagccag ttttaagggt ccaaacttac attcgcgagg gtgccacctt ttaagtattc 240  
aatcttgcca ccttaa 256

<210> 41045  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H9



<400> 41045

gaaatttttag ttcaatcatt gtatctatta gatatgtcag agtcctcttg catacatcta 60  
ttgaccgcgt aactcaaacg gggagctggc aatgatttta cacattggac ttcagcagtt 120  
cctactgcac cccgattgcc tctcaccatg tctgcactga catgggttcaa tgctccggtg 180  
ccaccattta tgactaccac gacgggtgatt tcgtatacca actacatgac caatgctatc 240  
ttctctaacg ccatgggcat caccaaagtg tagcctcaaa gagcttgcat tcttatagac 300  
cctaaattaa ttgaccca 318

<210> 41046

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A1

<400> 41046

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ggcgggtggtt ctgtgcctgc tgctggcgac cgggcccgcag gaggccgtcg gcgccgaggg 120  
gatgctgtcg tatgataagt tgctcagctg caagggtgctg ggcaactgcg acaagaacag 180  
gggccccggg gccacctcgc cggggaagcc cgtaaacaag tacacccgcg gctgcagccc 240  
gctgacccgg tgccgcggcg gctgatcata tctccttggt ttctggtcga tgtgcg 296

<210> 41047

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A10

<400> 41047

ctcataaacc ctatataccg ccgactcgcc gtcttcgct gccgcggat ctctgcaccg 60  
gcggtagaga agcccgtgct gccctcgtg tatcaccgga acttgcagca aagacacaat 120  
tccagtttgg tggatgcgag tggaggattc agcgagatgc ttgcctctac acggaggtgc 180  
tatgtatttg gaggcaaagg tgggtgtggg aaaacaagca tggcggcgtc gcttgctgtg 240  
aagtttgcca accatggtga accaacagct attgtttcga cggaaccatc tccgtcactc 300

ggtgatttat ttgaacaaga catgggtgtt ggcggcaaaa ctgtacgcat cactggattt 360  
gactctcttt ttgcagttga ggctggtcag ttcaagataa agggagaacc tgaagatctt 420  
ggatctttta tcaac 435

<210> 41048  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-028-Q1-K1-A11  
<400> 41048

atgcgaccat gtcagtgggtg ggggaggcca ataacccggt ggccggagtc cgaggggata 60  
acccaaca ccagcaggct gcgccggctc cgccgccagc acagggggaa gtggcgcatg 120  
aggctgtagt gcaggggacg ggacaagagc aggatcgaga caaggcggat cgagaggtgc 180  
aaggcgggtgc gggtgataag gacgacggcg cgtgcataga tctggtcctg gtctaggatc 240  
cggaggtcct tgcagtcgag gatccggagg aagctgcagc aaccgcaaca ctccaggaag 300  
aaatgaaagc gcttgtggca tctatccctg atggtgctgg agcagcattc acagtcatgc 360  
agcttcagga gctagagcag cagttcatgg tgtaccagta catggctgcc ctaatacctg 420  
tgcctactca cc 432

<210> 41049  
<211> 441  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-028-Q1-K1-A12  
<400> 41049

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cggcgcctcc aaggtcaccg tcaaggacgt caccttcaag aacatcaccg gcacctctc 120  
caccgcggag gccgttagcc tgctctgcac tgccaaggtc ccatgcaccg gcgtcaccat 180  
ggatgacgtc aacgtcgagt atagcggcac caacaacaag accatggcta tatgcacgaa 240  
cgccaagggc agcaccaagg gttgcctcaa ggagcttgca tgcttctaga cctccgtcg 300  
actgacccat ctctctagtt ataatttttc tctcgtcctt gcattgcca ttagttgcta 360

tccattggta acgcacaaca gtaaaacgac agacatccga cagctatatt atgttcgaacg 420  
gtgtaacacc ctgaatttga g 441

<210> 41050  
<211> 365  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-028-Q1-K1-A2

<400> 41050

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tagatagaac tggattgatc cccatggacc catgattctc tcagacgcca ctgcgcctgt 120  
tcgacgacgc gaagccagaa ggcctcgtgg tcggggagggc tgacgcagag agggacgatg 180  
ggaacggggg taccgccta caacggcgt cggggcataa tagttggtca ggcgtgatca 240  
taggggctca ctagaggcgc gtgcatcggc ccggtggggcc gaagacggtc ggtgcggcgg 300  
cgattgctcg ctgggatccg caagaaccgn cgtccgatca tctgctgttg tcagcactct 360  
tccca 365

<210> 41051  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A4

<400> 41051

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acctgacatg aggcaattac atggaaagtc cctcgttgaa gtaaacagaa gtttcttga 120  
aaaacacaat gtttcttga tgcaccgagc agctggtgct gaaatgatgt atctcttaga 180  
gccaaataag aagatggagg caattaattt aattgaagat tcaacaaata ttacatcacc 240  
agggcatagt ttgcttggtc ctgtaaaaac atggcaaatt caagattgta ttgatgttca 300  
taaattgctg gagacagtct ttggtgatca gaatgttgca aataagtga aagcacgggtg 360  
cgcggaatat tt 372

<210> 41052  
<211> 178  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A5

<400> 41052

cggacgcgtg ggcggacgcg tgggataaga gggcttcattg gatccagcag actagaggat 60  
ttcggtgga gcataccacc agcagcgtca tcggcattag tcaagctgac aaaccggctc 120  
aacttcctga aagaacgtat ggctgctgct ggcaagcgag atgcagagct tggatctg 178

<210> 41053  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A6

<400> 41053

cccacgcgtc cggggcgctc ctctcgaagc caaccggctg cgtcggggcg tactctcaga 60  
cctcgctgcc gccgctgggg ggtaccaggc ggcgctgtac ctcgaggcgc tctcgcgctt 120  
cgcgttgctc atgcacgacc ccgaggtgct ccgcgccttc gaccagtgtc gcgcctcgcc 180  
tcgtagctag ttacccttct tgttctcaag gcatctttgg gaagcatgag atgggctagc 240  
atgtggctga tgcatgcca aacagaacat aaccatgact acgagtggcc agttgggcca 300  
ttaggtggtg gtgagcgact cgaaaacgta gca 333

<210> 41054  
<211> 156  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A7

<400> 41054

caacgaagcc ccacacacac aaaagcaaaa agcatcatca caataatggc ccgcgcgtgt 60  
gtgttcctcg tgggtgctcct actggccgctc gttgcggtgg cgccgattgc gggggctgcg 120  
cgtgtggatg tcgtggaggg catgttcattg gcgttc 156

<210> 41055  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A8

<400> 41055

ttcgtggacg ctgtgactgc ttctgagaag ttcattagca atggactgga agctgaacga 60  
cgtgacatga cgcattttaca tggaaagctc ctcgttgaag taaacagaag tttccttgaa 120  
gaacacagtg ctgccttgat gcaccagca gctgatgctg aaatgatgta tcttttacag 180  
ccaaatgagc agattgaggc actcaattca atcgaatatt caacaactat tacatagtca 240  
cggcatagtt cgcttaatgc tgtaaaaaca tggcatatct aagaatgaat tgatgttcat 300  
tacttactgg agacagtc 318

<210> 41056  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A9

<400> 41056

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aggacctatt cgttcgaatga ccgcccggaa aaacagtgc accatgaggg tggaatggga 120  
tgcccttagc taattagtta gagaaactag agatgtagtt gcttcgccgc cgtgccgtca 180  
atgggggtcca ggcacagtgc ttgctctgcc gaggctgggt gccgaggttc tttcattttg 240  
cttttgtagg tcaccctctc gcgaggagtg gtgctgtggt tatcaaactg gagaaaccta 300  
acgggcgggt atgacctcta gggaatcttt gtaaaggctt cgtagtgaat ccctggccat 360  
tcaccttggg agtgataag ggtcttgcaa gcccgggcta gagagggaat cacgtcttgt 420  
gggtaaagtg tgcaacc 437

<210> 41057  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B1

<400> 41057

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ggcaacagat tgctgaaatt gagaaacagt caagagagac tactcagtta actgctgtaa 120  
ccacaaggac gacgaatgtg cacggagatg aactcattat cacaaccaca agtccatatg 180  
agcaacaagc attcgcacgc aagactgatt ggctgtgcag agccatctct gccacaaact 240  
tgtatctacg tgtaaatac atttatgtca attcttgtga tataaaggaa actggctaca 300  
cttacattat gccaaagaac atattgaaga aattcatatg cat 343

<210> 41058

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B11

<400> 41058

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cgcccgctctc aacgccacgc caatggccca gagcacgagg atggtggcgc tggccctggt 120  
ggctcctctg gtggcggcga cggcgtccgt gccacggcc accgcgtacg gctgctacga 180  
cgactgctac gagcgggtgcg ccaacggcaa gaaggacgac cccgcctgca ccaagatgtg 240  
caaccaggcg tgcggcagca ccgacaaggg cgcctccgtc ggcgcgccgg cttgatcgac 300  
ccgagcttca tcggcgcgcg ggctcagctc gatatcagca tcatatacaa tcgctgctcc 360  
gtcgctcagc tcagcccatg catgatctct cgaccggcc cattgaatct tctccttcta 420  
ctatagtata tctttgttgc a 441

<210> 41059

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H6

<400> 41059

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gtagcaagaa catcaccacc gccagcaat aatggcgag agcatgagga ttgtggcgct 120  
 ggccttggtg gccctgctgg tgggtggcgge ggcggcgccc gtggccaccg cgtacggctg 180  
 ctacgacgac tgctacgagc gctgcgceaa cggcaagaaa gaccccgctt gcaccaagat 240  
 gtgcaaccag gcgtgcggct ccacggatca gggcgccggt gccgccggcg ccgcgcgggc 300  
 ttgatcgccc agcgcatcca tgccttcagc tcgatataat cgctgctccg tcagcaaccc 360  
 acatatgatt cgatcaatct tctctctcta atttctcgac cccgtcgaaat ttttttctt 420  
 tctattcttc tactatacta ctactatctg tttgtcgcgt tgattttctt tcata 475

<210> 41060  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-027-Q1-K1-G11  
 <400> 41060

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 gaacacccac ctaaggattt ggagattgca atagtgaag cagagcacag tgatcgatgg 120  
 gtccctgatg acgttcaaag gctaaaagca ttagccggga gagagtccaa gcctgatgta 180  
 ggaaaagtgt cacttcacgt tctccctaac tctggccaact gggttcatgt ggacaatccg 240  
 aaagggctac tcgagatcat ggtacctaac tttctatcag cagttcaaaa ttgagtggta 300  
 ctttcaatca gaaccttcatt ttattgtgac atattgagtt tgacaacca tgggataacg 360  
 tttcctctct catattgntg cccaacaaga attctttgct tcttttctga ggaaatagtg 420  
 cacccttctg ttaataatcg 440

<210> 41061  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-027-Q1-K1-G12  
 <400> 41061

cacaaccact gtgggtactg ccaactgggt agggctcggt cggttagctc tcaatccatg 60  
 tggattgagt gagattggat gagtttgaat cccaacaaa ttaaacttaa ttttttccaa 120

tcccatctaa tccatgtgta ttgggaataa ccgaacaagg ctttactggt ttaaaaaaaaa 180  
tagataaaat caataaataa aataaataat actgatatta taagtaacaa tttaatatatac 240  
tattggtcat cagttttaac atggtcactt actctgtatg tattttaaaag ggggtgccctt 300  
ttaaaggacc caagctttct tacgcttggt tgcaacttct tagctttt 348

<210> 41062  
<211> 466  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-027-Q1-K1-G2

<400> 41062

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ctaccttctg ttgaatgcaa tcgctaacca actgcgctat ccaaatagcc atacacacta 120  
ctactccttc atcactctgt atctattttc cgaggctacc caggaaatta cccaggagca 180  
aatcacaagg gttcttctgg agcgtctcat agtgaaccgc ccccatcctt gggggttact 240  
tattactttc attgaattga taaagaatcc gcgttacaac ttttgagacc ggtcttttac 300  
acactgtgca cctgagatag agaaactgtt cgagtcggtg gcaaggctcat gtggcgcana 360  
agttgtggac gaaggaatca gcgtgcanga tggcagccac taaagccatc tgctttgntc 420  
aagtgttggt tttgtgctat ttcttctttg gcactggaaa ttttct 466

<210> 41063  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G3

<400> 41063

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cccgtcggaa ggaaaggcaa ctgcgatcag caacaccatg tggaggaaca tcatggggca 120  
ggccctctac cagttcctcg tcacttggtta cctgcagtct aggggggaaac ggctcttctg 180  
gatcgacgag ggcgccgtcg acgccgacct ggtcctgaac acggtcatct tcaactgctt 240



cgtgttctgc caggttttca acgaggtgaa ctcgagggag atggagaggg tgaacgtgtt 300  
 ccgaggcatc ctggacaaca acgtgttcgt catggtcctc ggcagcaccg tcgagttcca 360  
 gttegtgatc gtgcagtgcc tgcgtagctt cgccaacacg 400

<210> 41064  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G4

<400> 41064

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 ttaagaccgg cggcgatggc ggcgaagctg ggcgagctgc gcacacaggt aacgcgtgcg 180  
 gcggagttcg cctcgaagca cggctgctcc tactacaagg aggtaatgga gaagaacaag 240  
 cagtacgtcg ttcagcccc caccgtcgag aagtgccagg agctctccaa gcagctcttt 300  
 tacaccgcc tcgcaagcct accaggtcgc tatgagtcac tctggaagga gcttgattgt 360  
 gtcaagcagg tatggaagaa caggaaggac ctcacggttg aggaccttgg cattgccagt 420  
 ttggttgagg ttgagctcta tgcattgggtc tgcgt 455

<210> 41065  
 <211> 184  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G5

<400> 41065

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 attggaagta cacatggagt taaacctgcc tgatgaaaat ggtcgtttgc aaatccttca 120  
 aattcataca aataagatga gggagatttc ttccgtgtct ccagatttaa atctatgagc 180  
 tcta 184

<210> 41066  
 <211> 340  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G7

<400> 41066

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gcttaaaata cgcacggtt ggcaccgtc ttattagagc acgacgctgt gcctgctcaa 120  
tgagtgcctt ctctggagct gggggaatgg tctacatggt gtacagaact gtcaaaggaa 180  
actggcttca caagcaacac actgaccgtt cacagaggca tcatgtgttc aagaaacgct 240  
atgcgtatcc tgttctgctt tgctagaaac gatttgggtc atgactacct cgttttggca 300  
tcaaaagcgt tggtttacac acacaagccc atgttatgca 340

<210> 41067

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G9

<400> 41067

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atgtcgtgga gggcaggtcc atggcgtccg tcgacgcgcc tgaagcggcg gctgacgcgc 180  
ccgctcccgg tcccgaactc gcctgatccc cggactcgcc gtcggaggcg ccttacagca 240  
gcagctcata cgactagccg cgcacaacgc agttcttgtc atgatctatc tagcagataa 300  
aaagatcata tgtctcgttt gattctctgg aataactaat agtatatatg ctgcgcccgg 360  
atgatatagt aatatgtgca tcaaatgcgt ggggcaaacg catggaatgt gc 412

<210> 41068

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-027-Q1-K1-H1

<400> 41068

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acacctcgtg ccgcctccgt cgccggctcg cctccccatc gacgcgcagg cagccctgcg 120  
 tttgctcccc gtccgtcggg aaaggggagc gccggcgctg cctccagcaa tcaactcgcc 180  
 gcatccaatc acgggcgctc cctcctcgat tggctcctcg gtgggttggtt gttataggca 240  
 ggcgggaagg atgtttctgc tgagccagat cgagcacgac ctcccgatgc cgccgcacct 300  
 gctgangccg ccccttcccg acgcatcaa ggccgagctc gagaggctct tcttggacaa 360  
 ggtaatcaca aaacttgggc tgtgcgtgtc tgtctatgat a 401

<210> 41069  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H11

<400> 41069

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 aggtagtact gagttcattg catgactatg acttctgaag atggagacat tttggctctt 180  
 gtgtctgagc caagcctaaa ggaagagcaa cttgaggctt ctgaatctga tgctacgtct 240  
 tctgcaatta tgaaagccat tgaatcaa atagaatggag ttgaatgttc accatgcaga 300  
 agcttgtctg ggcagattga tacttcattc atac 334

<210> 41070  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H12

<400> 41070

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 cattgtgacc accgatgtgg cgcaggcggc gaggggaatgc gagaaggaca gcgagcgatt 180  
 ccttggggca tgcattggcg cggaactg cgccaacgtg tgccgcggtg agggcttctc 240  
 cggcggcagg tgcagcacct tccgtcgtcg ctgcatctgc actaagccgt gctaaattaa 300

cctactcccg gcagttcgat ggtggacgtt tattctatatt attggcttac ttgatttttt 360  
 ttcccctaac aataagaaaa cgcacgtgct tgcattgtacc gtgtgttgga tatgctttt 419

<210> 41071  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H3

<400> 41071

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 atacgaccgt gggacaacgt agaccggagc tcgatcgccg cagttgccgc atgggctgtg 180  
 ctgtcaaaga tcttttgcta ctttcttgat ttgtgcttgc gttgggttcg gtgatccact 240  
 ttctttttat gtgattatta atcttggttt cagatgcatg tacgcatgta tgtgccggca 300  
 ccatatggtc ttgtgttaag attattcatg gattccaatc tctagtgtat ggtcgattgg 360  
 tttgtgagtg catgttgtac tcataccaac ttctgtcttt acatcagcat ttattacgaa 420  
 atagcaatgt gacctatcca aatta 445

<210> 41072  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H5

<400> 41072

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 cgaacgccaa gggcagcacc aagggttgcc tcaaggagct tgcattgctt tagaccctca 180  
 gtcgactgac ccatctctct agttataatt tttctctcgt ccttgaattg tccattagtt 240  
 gctatccatt tgtaacgcac aacagtaaaa tgatagacat ccaacagcta tattatgttc 300  
 gacggtgtaa caccctgaat ttgaggggtat aaaaaaaaaa gataataata aacaaagaaa 360  
 aaacaaaaat tagaactaaa ataaaataaa tatgatatac gatccattga aagcagaatc 420

aattcattc

429

<210> 41073  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G10

<400> 41073

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gtaggaaata gagatgagtt tctcaacata gaacatgaac aagatgaagt ggaagaaacc 120  
ttgccggcac atgaagaaga tgatgtccat gttgttgagg caggagatgc aacaggttta 180  
aggcatgata cagtgccgca gagaacgact actgctacaa gagggaacaa tgaagaaaca 240  
aggacaaaga ggcataaaaa ggtgataac ctagaaggaa taatgggaag atacattgac 300  
atgagaatga agcaagctga ggaagaagcc acacaactag caaaagagag ggaggaaaag 360  
gaagtgagtc aagctgcaga cttctcaatc aagaagtgc tatccattat tgggtacaatg 420  
gaagttacaa aggaggaaaa agcgaaag 448

<210> 41074  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E7

<400> 41074

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attcgtgaa gtcagttaac cttgacaatc gccaaattac tgatgttggc ctggcagcac 180  
ttataagtct cactaggctg actcatcttg accttttttg agcttgcata actgacaatg 240  
gcacaaattg cttcagatat tttaagaatc ttgtttctct tgaagtctgt ggtgggttcg 300  
ttactgatgc tggagtgaag aacatcaagg atctgaaggc cctgacgttg ctgaatcttt 360  
ctcaaaatgc taatctgaca gacaaaacct tggagctgat ctctggcctg actgctttga 420  
tcaacttgaa cgtgtcaaac tcacgggtgt ccaatgct 458

<210> 41075  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E8

<400> 41075

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 gtccaatgaa aacagctaac ctcgacaatc gacagattcc tgaccatcta ctcgatgtac 180  
 ttataatcta tacctaggcg tgctcatcgt gacctttacg gagcctgcat acctacacca 240  
 tggcaccaat tgctatagat actataagaa tatcggagct aatgcaatct gaagagagtt 300  
 acgaactgac gctggagtga agaccattac ggatctgaat gccctgacgt ttctgaatgt 360  
 aagtgaaact gcttacctgt cagaccttac ctatgatatc cacattg 407

<210> 41076  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E9

<400> 41076

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 acatatgcca gcgctgtagc gagccacgtg gagttgctga tcgtggcagt ggcgggcgcg 180  
 gaggaggagg aggaggcgac tacgccagct tcggtggccg cgggtggctcc tacttcggcg 240  
 gcggctttgg cgctgctggc tctgacgtcc gccctggtga ctggtactgc tcctgcggcg 300  
 cgcacaactt cgccagccgc tccagctgct tcaagtgtc cgcctacaag gaggaggccg 360  
 ctgtgaacag tggcgctggc ggctttgacg gcgacatgtc acgctcacgg cgctacggct 420  
 tctgcagcgg tgctgctggt 440

<210> 41077  
 <211> 465

<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F1

<400> 41077

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atgatgacct tgatcttttt ggtgatgaaa ctgaggagga caagaaggca gctgatgagc 180  
gtgccggcgc tgccaaggcc tcttctaaaa agaaagaaa tggtaaatcc tgcgtcctta 240  
tggatgtcaa accatgggac gatgagactg atatgaagaa gctggaggag gctgtccgca 300  
gtgtccagat ggaggggtctg acttggggag catcaaagct tgtgcctgtt ggatacggca 360  
tcaagaagat gactatcatg ttgacaattg tcgacgatct tgtgtccatc gacactctaa 420  
ttgaggacca ccttacgcaa gagcccatca atgagtacgt acaga 465

<210> 41078  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F10

<400> 41078

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tcagttgttg gctgccggcc gggactacc gcctgcacga gcagcggcta gccacagccc 120  
acagacagac gacgtcaggt cttggcgggtg tacaagcaga cagagctcgc tcggtcgcca 180  
tgtctttcac cggcacgcag gacaagtga aagcctgcga caagacggtc cacttcatcg 240  
acctgctcac cgccgacggc gtctcgtacc acaagacctg cttcaaattgc agccactgca 300  
agggcgctct ctcgattagc agctactctt ccatggacgg cgttctgtac tgcaagacgc 360  
actttgaaca gctcttcaag gagacggtga acttctccaa gaaattccaa ggtggaggtg 420  
gagcatcttc aaacaagaac gacccg 446

<210> 41079  
<211> 119  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F12

<400> 41079

ccagtttttag ttaatgtgct ccatgcttga cgtttaaaaa aaaaaaaaaa aaaaaaacia 60

ggagaaaaaa aaaaaaacia atggggaaca caaaaataaa aaaaaaaaaa atataatat 119

<210> 41080

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F3

<400> 41080

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ggcggcacca cctacaaagg ctacaccatc ccacacaaca agcgctggca caccgtcgcc 120

ggcaagggcc tgtgcgctgt gatgtggttc tgggtcttct acagggctaa gcacgatggt 180

gctacgctct tgggttagcg tcatecttgg gatgggcatg atgaccactc ttatggtcat 240

ggacatggga atgaggcatc gtgacattaa gatgcctact ctggcgggac ggtgatttga 300

tgctttgcat gtcacaacia ctaaagattg agttaataaa ttgtaccacc cttcatggta 360

ctcatggtgt atgtactcat gttgtatgca actggttttag caaaaactgg ggtcggttac 419

<210> 41081

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F4

<400> 41081

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cgtgggtggaa ttcgtttggt ctggttggtg cgggggacca cagaagcatt agctgggtga 120

actctttcaa aaggggcagg tgcgctagtt tgaatggctg ctacaaagct tcaggccttt 180

tggaaccacc ctgctggccc caaaaccatt catttctggg cgccaacatt caaatgggggt 240

atcagcattg ccaacatagc cgactttgca aagccgctg aaaagatatc ttaccctcag 300

caagttgctg ttgcatgcac tggaatcatt tggtaaggt acagcttggt tatcacaccg 360



aaaaactgga accttttcag tgttaacgtt gcaatggcgg gtacaggcct gtatcagctt 420  
tcacggtaga ttaggcaaga ttacttgtct tgtgagaagg a 461

<210> 41082  
<211> 460  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-027-Q1-K1-F5

<400> 41082

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cccgtgata gcagaggcaa agaagaagag agtcgccgcc gccgccgccg aggagaagaa 180  
ggtgcaggac aacttctgct cgacgctgtg cgagggcagg aaggggatgg acctggtggt 240  
gtgcaaggag tcttgcgacc tctcacagcg ctccaacctg gtgctgtacg gccggatcca 300  
gtgcaagggc aagtgcaccg agcagaaggg catcaccgcg ccgcagatga aggtgtgcca 360  
agaggcgtgc gacaaggact acgtggtcaa ggcggctgan gtcaccaagg cctgcaacac 420  
cacctgcgcc aaggagaagc agcctctgct cagcgagaac 460

<210> 41083  
<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F6

<400> 41083

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cgccgcgctc agcctccgcc gccttcgact ttgaggaagc agcaaccttc cttgccgatg 180  
agggctctgga ttacgcccct ctcgatcag atgatggtga ggttggtgat ctaatcaccg 240  
ccaaggacgt ggagcgcata cggagctatc ccaagctggg caagccgtct cttggagcca 300  
acgggaagtt tgtagttgcg gcttccattg ggactcgtga agatgacaag ggaagactgg 360

agcaactagt taaggcgggg gcaaagtcta tcgtgattga tagttcacag gggaactcca 420  
tataaccagct cgatatgata aagtttgcca agaagatgta 460

<210> 41084  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F7

<400> 41084

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ttcctgcaa gataaaggta atggagtcgt cacgcagggt ccagccggcc gtcacccctgc 120  
ttctcctgct cattgtgtcc accgatatgg cacaggcaag ggaatgcgag aagtacagtg 180  
agcgatttgt tggggcatgc atgatcgcag acaactgcgc caatgtgtgc cgcggtgagg 240  
gcttcttggc cggcagggtgc agcacctttc gccgcctctg catctgcact aggcagtgct 300  
aaacaagatc gtcgatcgc tcgtcatgca tcgacaacct attcttaata acgttcatta 360  
tctcgttctt attcatgact aatgtcatgt atgttctggt gactgtcatg tatatactga 420  
tgactg 426

<210> 41085  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F8

<400> 41085

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atatgagcac cgtgtcgaga gctgttacat gagcctctac gtggtgtatc caagcagacg 180  
acgcgacggg tggacatata tacgatgcac tgttacacgg tgacctctag tactgcttga 240  
acgttagtca gtgcttctg aatccaatga gctactacgt gttaccattt ttggactgcg 300  
tctttcgga gacagtcaag cgcgcttgat acgacctcaa gttcgggata accatgtact 360  
agggcagg 368

<210> 41086  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F9

<400> 41086

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 cctcttgaaa gtccgggtgg tgaggggcat caaccttgcc taccgacgac caagaggcag 180  
 cgatccgtat gtcgtectac gacttggaac gaagaaactt aagacgagcg tgaagaagag 240  
 atctgtgaac cccatctggc acgaggagct aactctgacc gtcacagatc ccagcctagc 300  
 tctgaagctg gaagtgttcg acaaggacac gttcagcaag gacgacccga tgggggacgc 360  
 ggagaacgac g 371

<210> 41087  
 <211> 459  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-027-Q1-K1-G1

<400> 41087

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 gtcgtcgtct ctctctccag cggcggcagc cgcgcccctg gatctggacg gcaactccgt 180  
 cgcgcccctc accatctgca tgattggcgc cggcggcttc atcggtctcc acctctgcca 240  
 gaagctcatg gccgagacgc gccatgtcgt cctcgccgtc gacgtatact gcgataagat 300  
 ccgncacctc gtgcaccccg cgccgtcgca cctcgcggtg cgcattctct tccaccgcct 360  
 caacatcaag aatgactcca ggctcgaggg cctcatcaag atggccgacg tgaccatcaa 420  
 cctggcgggt atctgcacgc cggcggacta caacacgcg 459

<210> 41088  
 <211> 467

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-027-Q1-K1-E6  
  
 <400> 41088  
  
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 gtgaatcttg tgcaactggt gggaactgac tctaaagtca tcaccaatgg gaacagggag 180  
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 tatgctactg gagggaggaa cactgaaagt gtatttgtca caggactgat caaagttgat 360  
 aaggcacaga taggaatatg cgacaatgat gctgggaccg tggagtctgt ccaaagtta 420  
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<210> 41089  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-027-Q1-K1-D3  
  
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 atgagtgtgc ggtacgcaag ggcaacttta ggggctgcta caaattcatg aagccactct 420  
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<210> 41090  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D4

<400> 41090

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ctgctaattcc tcaaggtcta cttctggagg cccttcattc ggctggatat tccggggcac 180  
tggcaaaacc tttgatggct tcagaatctg ctgtaaaccg gttggatggt agcagcttgg 240  
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atcatgatgc gctgatttca gttgtagaac cacttctgtc tgaccttcg tgctgaaac 360  
gtcctgaaga gccaaaatct gtgtacgtgg gaggagacta tcgctgcaa gcagattctt 420  
caaacacaca catcgcaatt gcttt 445

<210> 41091

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D5

<400> 41091

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gccgtggctc gcccgggggg tcgtgatgag cgtgctgtgg gcgtacaccc tggcgcgcg 180  
gctggtggcg ctctggtgg ccatcgggta cgtggtcggg atcaagccga gcgtgctggg 240  
cgtgacggtg ctggcgtggg gcgactccct gggcgacctg gtgtcgaacg tggcgatggc 300  
ggtgcacggc gggcccggcg gcgcgcagac cgtcgtgtcc ggggtgctacg cgggcccgct 360  
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<210> 41092

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D6

<400> 41092

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 cggcggagct tccggttcat cgtgttcagg atctgactga caccgacatg gatatacaagg 180  
 tggaccgtct cgggtggaccg aaccatggct acggcgactt caccgacagc ctcccggcca 240  
 acgagtgccg ctactcgatc tacgacctcg acttcaccac catcgagaac tgccagaaga 300  
 gcaagatctt cttattctcc tgggtccagt acactgtacg caccatgagc aagatgctgt 360  
 acgccagctc caaggacagg ttcattgaggg agctggactg cattcagtgc gagatccatg 420  
 acaacgaccc catcgagatg ag 442

<210> 41093  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D7

<400> 41093

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 aaggtctcct ccagcaccta caacatagcg caggtttcat atgagctgaa tgtcttgggt 180  
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 gctggtggca ctgttcccag ccagctggac agcatccttg ctgctctac tgatgagtca 300  
 tttggcagca tttccttctc caagtcattt gttgtggacc ggtctatgcg tttcagcagc 360  
 tcaagattct ccgacatctc aatgagcagc agccgcagga ttggagacac ggcatcggga 420  
 gacaatgatg agtgcaagga gaggccattg at 452

<210> 41094  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D8

<400> 41094

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 tacgtccgtg aatggaatac gaagcccaag ttctgtcatg ttgcacagtt tgtgcttttt 180  
 cggttattga ggagtttctc tcccactgat atcctggaga tcaagggcat cagtgaagctc 240  
 cttgagggcc ttattccgta ttgcagagg catttcagcc gagtcgatag actagtccga 300  
 agcacgtttc tgttggacta tacgtgatg cgaatgtccg tggtagatcc agatgtagat 360  
 gcgggaacaa tcaaagatga aatgaacggt tcgtctgcgg agaacggtga acttgcaga 419

<210> 41095  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D9

<400> 41095

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 ggcccttacc gaatccacgt tcgagaagga ggtcggaaag gaccgcggcg cctcgtcga 180  
 gttctacgcc ccttgggtgtg gtcactgcaa gaagcttgct cctgagtatg aaagacttgg 240  
 tgcaagtttt aagaaagcta aatctgtctt gattgctaag gttgattgtg atgagcacia 300  
 gagtttgtgc agcaagtatg gagtttccgg gtatccaaca atccaatggt tcccgaagg 360  
 atccttggag cccaaaaagt atgaaagaca acgcactgca gaagcccttg ctgaatttct 420  
 caatact 427

<210> 41096  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E1

<400> 41096

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 gtcattggc atgcttcaga agattgatgg tgacaattat ccagagaccc tgtgccgcat 180

gttcatcatc aatgcaggcc agggattccg gcttctatgg ggcaccgtca agagctttct 240  
tgacccaaag accactgcaa agattcatgt tctgggtaac aagtatcaga gcaagcttct 300  
cgaggtgatt gatgctagtg agttgccaga aatttttggg ggaacctgcc gatgtgaagg 360  
tggttgcatg aaggctgaca aaggcccttg gaaggacccc gaaatcatga agatggttca 420  
aagtggatgat gggaggtgtg gatcactcgg ta 452

<210> 41097  
<211> 411  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-027-Q1-K1-E11

<400> 41097

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aggatatggc gtcctccgt gtggtgtcgg tgctagtgtt ggtggcaatg gcggcgagcg 180  
cgggcggcgt cgcggcgagg cctctggtag ggggaggcgg ngcgtgggag aacagggcgc 240  
cgctgcagac gtcgcgcccc ttcaacatcg cgcaccgggg ctccaacggg gagctccccg 300  
aggagacggc ggcggcctac gcgcgcgcca tcgacgaggg cgcggaacttc atcgaggcgg 360  
acatcgaggc caccaaggac agccacctcg tctgcttcca cgacaccacg c 411

<210> 41098  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E12

<400> 41098

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tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgtcc gggcctgggtg ggtccttcga 120  
catcaccaag ttgggcgcct ccggcaatgg caagacagac agcacgaagg ctgtgcagga 180  
ggcatgggca tcggcgtgcg gcggcactgg gaagcagaca atcctcatac ccaaggggtga 240



cttccttgct ggacaactca acttcacagg cccttgcaag ggcgacgtga ccatccaggt 300  
 ggatggcaat ctgctggcga ccacggacct aagccagtac aaggaccatg gtaattggat 360  
 cgagattcta cgtgtggata acctggtcat caccggcaag ggaaaccttg acgggcaggg 420  
 cccagccgtg tggagcaaga ac 442

<210> 41099  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E2

<400> 41099

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 agctttggat ttccttggtg gtgctttggc aaggaatgat gagaccattg gtactgctct 180  
 ggagctgctg gaagagtatc aaggggagtc gcttaagcat gcaggcaagt cctttgccac 240  
 agttgtacat gctttgtgta cggtaaacia aatggacgat gcaaataatt cgctgatgag 300  
 gatggtgcag cttgaagagt acaaagggga atctcttaag aatgcaggca agacatttgc 360  
 cacagttata catggtttgt gtaagaaaaa gaaattggag gatgcaaaag cctctgtgat 420  
 gaggatggta aat 433

<210> 41100  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E3

<400> 41100

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 gcgccagtgt gtcttgccga agcgttctcg cggctggcgc tggaggacct gtggcgcggc 120  
 gccatgccgt gctgtcgctc ctggcgggac gccgcgcgct cgcgcccggg actcttcgct 180  
 gtgcttgacc tcgagcccgg gtttgctgag ttcacacctg gcgccgaggc gacagcgtgg 240  
 tggacgccct cctttcagcg ccgtgatgac gccatggtgc gctttgacag cacgttcgtc 300

gaggtggagc tgcgtgagat ccatgtacac cactgtttcg acgactcgct cggettccggc 360  
 ggcgagaggt ctgctagact tagtatcctt tcgggtcaaaa ctagcctggc agtaaccgat 420  
 cgatcaatgc ttattgtcgg agcatgct 448

<210> 41101  
 <211> 459  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E4

<400> 41101

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 tcgcggcgca gctgatggag gtgatggagc tgctgcacgg caacctggag gccaaagtgc 120  
 ggctgtacaa ggaccgcgtc ctgagcaaca tcttcctgat gaacaacggg cggtagatgc 180  
 tgcagaagat ccgcgggtcg gcggagacca acgcgatgct gggcgaggcg tgggcgcgga 240  
 agcagtcgac caacctgcgg cagtaccaca agaactacca gcgggacgcg tggagccgcg 300  
 tgctggggct gctccgcgac gacggcgtgc tgacggtgaa gggccacgtg cagaagccgg 360  
 tgctcaagga gcggttcaag cagttcaacg ccggcatgga cgagatccac cggacgcagg 420  
 gcgcatgggt cgtcagcgac gaggcagctt agtcggagc 459

<210> 41102  
 <211> 470  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E5

<400> 41102

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 ggacgtcgtg gagggtaggt ccatggcatc cgccgatgca ccggaggcgg cggccgatgc 180  
 tcccgtcct agccccgact ccgcctcatc ccagactca tcgtcagagg cgccctccag 240  
 cagcagctcc tccgactaga cgcaaaaacc tcttcattct ctggaataac taacagtata 300  
 tacgttgac cctgatgata tagaaacatg tacgtgcac agtgtatgga atgcgagtg 360

caaacacatg gaatgtgctt gcctaattat tgtttatttc tttatttatt atatgtctct 420  
ctcggttgat tgttattttt cttaatgcat gtaatataat ttggtatacc 470

<210> 41103  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D2

<400> 41103

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cctcatTTTT cccatcaaag gatcagaaag aaggggccta gaaagtgttg aggccaagaa 120  
gaaaaatgga cagtatgaca tgaagctact agctgttgac ataccaatgg catcaagtac 180  
tgaccagtgg ctgttcctcg tcagtgatga acaagagtac aacgtgggag gaggcttgat 240  
atctgagctg agagaccoga tcgtaaaagc tattgccgct gataaggagt ttgactatct 300  
tgaagaggaa gcggaagcat tgatgcgcca ggaggaaagg ctgcgccagg cgggtgaaga 360  
gcgtatgcgg cgcgaggaag ctgatagcct ggataaagct acgtgacacg acgtactgta 420  
ctgactt 427

<210> 41104  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B9

<400> 41104

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caccgtctcc aagatccact acgagaatat caagatggag gactcagcca accccatctt 120  
catcgacatg aagtactgcc ccaacaagtt gtgtactgcc aacggcgctt ccaaggtcac 180  
cgtcaaggat gtcaccttca agaacatcac cggcacctac tccaccccgagg aggccgttag 240  
cctgctctgc actgccaagg tcccatgcac cggcgctcacc atggatgacg tcaacgtcga 300  
gtatagcggc accaacaaca agaccatggc tatatgcacg aacgccaagg gcagcaccaa 360  
gggttgccctc aaggagcttg catgcttcta gaccctccat cgactgaccc atctctctag 420

ttataattct tctctcgtcc ttgcattg

448

<210> 41105

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C1

<400> 41105

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gtgcattcgg acatatactc atgagcatca tcacgtgctc gcgttggcct accatgtcca 120  
actgatctgc catctggtct ataacgtgca tgattacaac gaggctcagt attggacagg 180  
tatacgtatg ggctttcggg tccgactgga acacagcgct cagctattga caggatgctg 240  
ccatcactcg atggaacgaa cacatcacga tcgaggagct ccttgccctga gcagtaccgc 300  
ttcggacaac ctggatcttc cgggtggcga tggcctcctc actgatcgct ggaacttggc 360  
ccttagattt gaccagcaga cgtgcaaccg atttcttgag tccggtggag cctaaacct 420  
atctacggtc taactttatg gatcctacta gtcgtttctt c 461

<210> 41106

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C10

<400> 41106

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tctcgccgtt ctctctctct tccgttggat tagggctctt catctgttcg ccgcacttcg 120  
tcagtcgccc atggcggatg aggaggtcac tgatccaaag gcgctcctag aggatcgctc 180  
aaaggctaag tgtgtgtcgc agtggtatga ttatcagaaa tgtgttaaaa ggattgagga 240  
cgatgagact gggcacaagc actgtaccgg tcagtacttt gattactgga aatgtgttga 300  
caagaatgtt gcagagaaac tctttgagat gttaaaatga caaatcttct ctccatttat 360  
ccacctaag ttggaataa ttgtaccact tgggaggcct atagactatt aaggcactta 420  
atatttgtca gagaa 435

<210> 41107  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C11

<400> 41107

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 tgggtggcgt agcgcttgac atgagggcct ccgatgcttg acggtagggc ctctcgcttg 120  
 aagagggcgg gcaggaccta cgtgcttgag taattcacgt gcactacatt aaccatccga 180  
 taatgtccag caggctttca tagcctcatc gccaaactgc atgttgacgg cagcacgtgt 240  
 aacattggcc tttgggacac tgtaggtca ggaacgttac aacatactga gaccactgag 300  
 ctatcgtcga actgatgtgt ttcttctggc tttctcactg atcagtattg ccctctttga 360  
 aaatgtttcg aagaattgga tacctgaact gaagcattat gcacctggtg tgccaattat 420  
 tctcgtaggg acaaagct 438

<210> 41108  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C5

<400> 41108

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 ggcacacgag acacgaacca ggcaaaccag ctgccgaggg aggaacccta gcggaacact 120  
 gtgcaggatga cggcggctcg ctaccggaga cgggggatac ggcggcatcg cccccctcgg 180  
 cccctcctac atccacggcg cggcggcgcc agcagccggc ctgcaggatt ccacgtcgtc 240  
 catggcgctt gtcgagatgt gtgggcagcc gtgcagcggg aaaacagcag ccgacacttg 300  
 ccttgctgtg gcgctgcact cctgctaacc tgacctcact gtccgaatca tcgatgagtc 360  
 atcccttcat ctcaggcgca acgatagcta caaagatatg gttgtggaga aaa 413

<210> 41109  
 <211> 457  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-027-Q1-K1-C6

<400> 41109

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gacatgggtgc acgggacgct ggaggtgctg ctcgttgggg ccaagggcct cgagaacacc 120  
gattacctct gtaacatgga tccgtatgca attctcaagt gccgttcaca ggagcagaag 180  
agcagtattg caactggaaa aggaactacc cctgagtgga atgaaaactt tatcttcact 240  
gtgtctgacc ggacaacaga cttggtaatc aagattatgg acagtgatac aggcacagca 300  
gatgactttg ttggtgaagc aacgattcca ttggaagcag tgtatactga aaggagcatt 360  
ccaccaacac tctataatgt tgtgaaagggt gaaaaatact gcgngngaaat caaagttggt 420  
ctcacattca ctctgagga tactcggcag cgggggtc 457

<210> 41110

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-027-Q1-K1-C7

<400> 41110

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gaggagctcc gacttagagg agttcgaggt ggaggaagcg gtggccatgg agtcgcagac 120  
tctccgccac atgatcgagg acgactgcgc cgacaacggc atcccgtcc ccaacgtcaa 180  
ctccaggatc ctctctaagg tcatcgagta ctgcaacagt cacgtccacg ccgcccga 240  
acccgctgac tccgtgcct ccgagggcgg cgaggacctc aagagctggg acgcgaagtt 300  
cgtcaaggty gaccaggcta cgctcttcga cctcatcctg gctgccaaact atctgaacat 360  
caagggattg ctggacctga cctgccagac ggttctgac atgatcaagg gcangactcc 420  
cgaggagatc cgcattgacat tcagcatcaa gaacgact 458

<210> 41111

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C8

<400> 41111

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ttttgaagaa gtagctcagg agacaaaagc ctgatcatag gctctaaata gtgaaatgtt 120  
actgcaccaa tgctgtgagg tcatgggttt cgtgtgatgg cactcttctt cctcccctcc 180  
taggccagcc ccagccactc tttgtgttcg ctggttgaaa cttttagttt ctccatctca 240  
agcttttacc taaggttgtg catgttgaga tgccatggaa atccattttg ctgattattt 300  
ggtttgtggt cggttcacia cattacatgt gcaccagggt ttgctggggt atcactatat 360  
aatgtttgtg tagtctagaa aaaaaaaaaa aaatacatga caataaatac tgtaattgct 420  
ttacaactta gcttgagaat 440

<210> 41112

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C9

<400> 41112

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tgtctccctc cttacaattg aggaagggtat ctttgaagtc aaggccacag ctggcgacac 120  
ccatcttggt ggtgaggact ttgacaacag gatgggttaac cactttgtcc aggagttcaa 180  
gagaaagaac aagaaggata tcatggcaa cccgagggtc ctccggcggc tgaggacctc 240  
ttgtgagagg gccaaagaaa ctctgtcttc cactgcccag accaccattg agattgactc 300  
gctgtacgag ggcattgact tctactccac catcaccgt gccagggttg aggagctcaa 360  
catggacctg ttcaggaagt gcatggagcc tgttgagaaa tgctgaggg atgccaagat 420  
ggacaagagc agcgttcatg atg 443

<210> 41113

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-027-Q1-K1-D1

<400> 41113

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cgcttctgggt ttcgacagct gataagcagc taatagtcta cacgggtccg gctccaagta 120  
ccccgtaggt caatccatta gctccccggg gcttggttgg aaaattgtaa tggagatcag 180  
cgctagctat cttgacggcc caactgacag tgagctcgga gacgacagta cagataatgc 240  
acgttagggc acgggcttct cttgccgtga gcatggcgct gctgtacgta gaggtccaa 300  
tggattgtgc tgtaatacaa gactgagact ggaacctgaa atgggcgaca tgtgcaccaa 360  
aaggtgaaga gcccgtcgc tgctggaaaa ctctnctgta ca 402

<210> 41114  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D10

<400> 41114

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catgggtggtg gaaaggctgg gcgactacct gcttgaacag ggcagtgaac tactacgtac 120  
cagctggaat gcatgtcgac gacgatgggt tcgagtttcg acttccaata atagtaacaa 180  
caaagcaaag gccttctctc cggcgatatt gctttggctc ttctctcca cgccataaga 240  
tatctagcaa ttggtcactc gccttaatta gttcgctttg cttttgaggt tgattcgacc 300  
attttgctgt agcgtgaatt gcatgcatgg acatgcaacg ctccaatggc ccttggaatg 360  
tggaattttt tttccattt tctggatttt tctataaaa aatgaactgg ttcttata 418

<210> 41115  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D11

<400> 41115

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 ttgctctcaa cttctcagtg ttctactacg agatcctgaa ctccctgat cgcgccctgca 180  
 accttgcaaa acaggccttc gatgaggcga tctctgagct agacagcctg ggagaggagt 240  
 cctacaagga cagcactctg atcatgcagc tcttgccgga caacttgacc ctatggactt 300  
 ccgacaccaa cgaggatggc ggcgacgaga tcaaggatgc tgctgccccg aaagaatctg 360  
 cggaggggtca gtaagatgga ttcagtctca cgacctgctg ctgctgatgt tgaggagtga 420  
 ccagaaccag aaccgtcgtc 440

<210> 41116  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-027-Q1-K1-B8

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 gtcgtggagg gcagggtccat ggcgtccgcc gacgcgcctg aggcggcgcc tgacgcgccc 180  
 gctcccggtc ccgactccgc ctcatccccg gactcgccgt cggaggcgcc ctccagcagc 240  
 agtcatccg actagccgcg cacaacgcag ttcttgtcat gatctatcta gcanataaaa 300  
 agatcatatg tctcgtttga ttctctggaa taactaatag tatatatgct gcgcccggat 360  
 gatataataa tatgtgcatc aaatgcgtgc ggcaaacgca tggaatgtgc ttgcctagct 420  
 agctaattgt tgttntttt 439

<210> 41117  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A3

<400> 41117  
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gtgccttttc tctaattctt tcgttgcttc ttgtaccaca agtttttagca gtggtattca 120  
aagatcgggt cacaataaaa tctctatgcg catatgggtg gcagaggaca ctggtgaagt 180  
ctctagttgg tggtttcatc tgttgttttg ttgaactcgc caggctgggt cttgtatggt 240  
tattgctact gttatatgct atctatttag tttttatacc ttggttattc ggtcaccta 300  
ttactgaaga tggtagcctg acttacatga cacataaagg ctggattctg aaaggacca 360  
gtagtagcaa cgaagtagtc catgctggga ttccagatgt catggtcatt ggtctacctc 420  
acctttgctt tgtgttagta cccaccatt 449

<210> 41118  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A5

<400> 41118

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aaagaaaata aaaaaaatgg gaactgccaa aaaaaaaaac aacaaataaa aaaatatact 120  
gctaaatttt gataatacac ttagcaattc taaataagac agattaacac cagaagaagc 180  
aataatgatt gagctagtta cccttacagt tttcatggaa tataatagtc cttacgatac 240  
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gaatatatca ctttgacatc cattgcatct c 331

<210> 41119  
<211> 456  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A6

<400> 41119

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aagtggatca atcaaatcct aactaatct tctagagagg atcgaaacag ctcaaattga 120  
aaatggtgaa cttgatagcc taccctcgaa gcttcaagca actgtttcac ttctttctcc 180  
atcggaagaa atcattgaat ctttgaagaa aacatttgat cagaatgttc gactaattgt 240

gagatctact gctaattgtg aggatttggc tggaatgtct gctgctggac tctatgaatc 300  
aattcctaata gtcagtctct ctgaccctag atccttttga gctgcggttg gacagggttg 360  
ggcatcatta tacacaagga gagcaatcct tagccgtcga gcagccggtg tacctcagag 420  
agacgcatag atggcggttc tcgtgcaaga aatgct 456

<210> 41120

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A9

<400> 41120

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gacagaagaa gctctgcttg agaagcaccg ggggtgctatc acttcatac attattcacc 120  
agatgtttct atgtttgctt ctgctgatgc caacagggaa gctgttgtgt gggatcgggc 180  
aagtagagag atcaaactga agaacatgtt gtaccacaca gctaggataa actccctggc 240  
ttggtcaccg gacagtcgat tggttgccac tggtcactg gacacctgtg caattgtcta 300  
cgagatagac aagccagtag ccagtcgct cactatcaag ggagctcatc tgggtggagt 360  
tcatggttta accttctctg agaatgatac tctggtgact gccggcgagg atgcttgcac 420  
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<210> 41121

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B1

<400> 41121

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aggcggggag cgagacacct ccacacgtgt ctcccccttc cctccccctt ccgttccttc 120  
tgtagctgcg cccgaccgaa cccccctacc ccgtggaatc gtcttccgat gcggcgccga 180  
taggggctgg cggaggagcg gaatggcggc gcacggcgag aagcgtcgcc gtacggcaag 240  
ggcccacgag aagccggaag aggaggagga ggaccgcac tcggatcttc cggacgtact 300

gcgcctgcac attctgagcc tgctgccgtt caaatcgacc a

341

<210> 41122

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B10

<400> 41122

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agccgtctgc taggtcttgc acctccgggc tctgggcatg gctgccgaag ctggcccaat 120

ctccaaggtc ctcatcgteg tagcgatgca gacggaggcg atgccgctcg tccacaagtt 180

caagctcgtc gaggcgcccg cccacgaatc cacatttctt aaaggtgccc catgggttag 240

gtaccatggc aactacaaag gcctccacat tgaccttgta ttgcctggaa aggatgctgc 300

tttaggagtc gacagtgttg gtacggtatc agcagctctt ttgactagtt tttccattca 360

aacactgaag ccagacctta tcattaatgc tggcactgct ggtggcttca aggccaaagg 420

ggcaagcatt ggagatgtat t 441

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<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B11

<400> 41123

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tctcctgctc attgtgtcca ccgatatggc acaggcaagg gaatgcgaga agtacagtga 180

gcgatttggt ggggcatgca tgatcgaga caactgcgcc aatgtgtgcc gcggtgaggg 240

cttcttggcc ggcagggtga gcaccttccg ccgccgctgc atctgcacta ggcagtgccta 300

aacaagatcg ctcgatcgct cgccatgcat cgacaacctt ttcttaataa cgttcattat 360

ctcgttctta tttatgacga atgtcatgta tgttctggtg actgtcatgt atattctgat 420

gactgtcatg tatcttggtc at 442

<210> 41124  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B12

<400> 41124

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 tagtctgaag cccatgacaa tggctccaat gccaatggcc atgcctatgt caccagctcc 180  
 tctcaciaag aagccaactc cagcagcagc aactcctctt tgttggtaaaa gtgataccga 240  
 taacttgaag atgggctaaac aggtgctgaa tgaagatata tcaaagttgc aatctcaggt 300  
 taataaactg aaacaaaaat gtgatgccca agaagagcaa ctgcagaaaag cggaaaggag 360  
 agctgaacat tctgcctcta cagctgcaga agagtcttca aggcgtaatg gtgtcttgga 420  
 gttcattagg ttccttgaca atg 443

<210> 41125  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B4

<400> 41125

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 cgtccccatc cccctacgac cccgatccgg ccgcgggccc cgtccccgcc accgccggcg 180  
 acggcgagct gttccggccg cggagagctg ccgtgcttgt ctgcctcttc cggggagacg 240  
 gcggcgagct ccgcgtcatc ctactaagc gctcgtcctc cctctccacc cactccggtg 300  
 aagtttcatt gccaggagga aaggctcagg agggatgatg tgatgatgta gcaacagcgt 360  
 taagagagtc aaaagaggag attggacttg atccagctct ggtaactggg gttgcctctc 420  
 tggaacactt cttggccaag catcttc 447

<210> 41126

<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B5

<400> 41126

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gaccactgtc tccatccagg tctttgaggg tgagcgcagt atgaccaagg actgccgtct 120  
tctcggcaag ttcgacctca acggcattgc gccagctcca aggggcacac cccagatcga 180  
ggtgaccttc gaggtggacg ccaacggtat cctgaacgtg aaggcggagg acaagggcac 240  
gggcaagtcg gagaagatca cgatcacgaa cgagaagggg cggctgagcc aggaggagat 300  
cgaccgcatg gtgcgggagg cggaggagtt cgcgaggagg gacaagaagg tgaaggagcg 360  
gatcgacgcc cgcaaccagc tggagacgta cgtgtacaac atgaagaaca cggtgggcga 420  
caaggacaag ctgcgggaca agc 443

<210> 41127  
<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B6

<400> 41127

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ctggcttccc gagctccggc gactccagct gaaggcccca gttatcgtgg tggggtgcaa 180  
gctggacctg agggacgaac aacaagttag ccttgagcag gttatggcgc ccatcatgca 240  
gtccttccgc gagattgaga cctgcattga gtgctccgct cttcgccaga tacaggtgcc 300  
tgaggttttc tactatgccc agaaggcagt acttcacct actgcccccc tttttgatca 360  
agaattacaa tctctgaagc ctcgatgtgt gagagcgttg aagcggatat tcattatatg 420  
tgataatgac aaggatggtg ctctcagtga cgtggagctc aatgaat 467

<210> 41128  
<211> 368  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G6

<400> 41128

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gtctcgtttc tcccttcttc agctgctggc cccctgcttg cagccattgc cccgctcctc 120  
gaggtcaaat gggccctgcc cccgctctca ccgccacatc cgtcctgaag cgatcccacc 180  
taccggcggt ccaactcggtg gccggtcgcc ggcagccggg gcgggaccgc gtctcggtgc 240  
tttctccagc gatcccgccg ccccgctttt catggcagca aggatctgga gtggttgcta 300  
agaggctcct ctgggcgagt gcgagtgggt ccttcgagaa agataacatc ggggaggacg 360  
tggtgttg 368

<210> 41129

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G7

<400> 41129

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gaagatgaag aaagtggcat catcgtcagc cgttctcttc gtgctagccc tgacgctagt 120  
ttgtgccccg ctgatagcag aggcaaagaa gaagagagtc gccgccgccg ccgccgagga 180  
gaagaaggtg caggacaact tctgctcgac gctgtgagag ggcaggaagg ggatggacct 240  
ggtggtgtgc aaggagtcct gcgacctctc acagcgctcc aacctggtgc tgtacggccg 300  
gatccagtgc aaggggcaag tgcaccgagc agaatggcat caccgggccg cagatgaagg 360  
tgtgccaaga ggcgtgagac aaggacta 388

<210> 41130

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G8

<400> 41130

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gaaagtggca tcatcgtcag cccgtctctt cgtgctagcc ctgacgctag tttgtgcccc 120  
gctgatagca gaggcaaaga agaagagagt cgcgcgtgcc gccgccgagg agaagaaggt 180  
gcaggacaac ttctgctcga cgctgtgcga gggcaggaag gggatggacc tgggtggtgtg 240  
caaggagtcc tgcgacctct cacagcgctc caacctgggt ctgtacggcc ggatccagtg 300  
caagggcaag tgcaccgagc agaag 325

<210> 41131  
<211> 130  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G9

<400> 41131

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ggcgttttta ccatattcga agcggacatc aaagagcacg cacgtcacga cttttacttt 120  
acgctcaagg 130

<210> 41132  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H1

<400> 41132

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ccgggcgata tcagctcatc gatgcgtcct atcacacaca tatcattacc gtcctcttc 120  
ctctcctatg cttgtcctct aactcattgg cagaagagaa aaaaaaagtc cttgttgagt 180  
tgttgatcgc ggttctgggt gtgactgtta ctgggggttc cttgtccggt tcttgattcg 240  
cgcaaggaca gatttgccgt cctctcgggt tccgcggggc ggtgctgaaa tcctccttcc 300  
ctgttcct 309

<210> 41133  
<211> 389  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H10

<400> 41133

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gcgcccgaag gcaccatccg ttacgacgac ttcacccgcc gcacgtcgc caaatgatcc 180

cgtccccctcc gagtctccat tccgccgac cacccttgcg cgctcttcgt ctgtaataac 240

ttcgtctccc atccgctga tttcattttg gttcccttct atggctggct catttgaatt 300

caatctggcc tccctttcgt tcccagactg ctgggataaa acggataatg gttgctgtgt 360

gttattaacc ctttcacggt ttttttttt 389

<210> 41134

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H11

<400> 41134

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agcatthaacc aaaggatcag agggccaaag ctaacatgga caagcctgtg atgaaccaat 120

gagtatctcc agaagctttc gttaaagtgc aaccaaattc gatatcactt tgatctggtt 180

agcttaaaac caacgctttt aat 203

<210> 41135

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H12

<400> 41135

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gaccacagag ctgggaagat cgtggtggag ctgaatggaa gactgaataa atgtggtgtt 120

attagcccac gttttgatgt atgtgtaag gagatcgagg gatggacggc gaggttctt 180

ccatcttgcc aggttggcta catcgtccta acaacttctg gtggaattat ggaccatgag 240  
gaggcccgcc gtaagaatgt tggtaggaag gttctaagtt tcttttattg aaaatggtgt 300  
tttttgagcc acaaatgcgt tcaagaactc tgttgatgtt ttgaggtttg tt 352

<210> 41136  
<211> 219  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H2

<400> 41136

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tgcgggcatg atacgctcat cgatgccgtc tatcacacac ctatcattac cgctcctctt 120  
cctctcctat gctatgctct ctaactcatt gtcaaaatag aaaaaaaaag tccttggtga 180  
gatagatgta tccggattct gcgaggtgac ctggtactg 219

<210> 41137  
<211> 268  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H3

<400> 41137

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aagtgggtct tatgtctagc tatggcaagg ctgctgaata tgcacttcaa aaccagccaa 120  
ttgttaatgc tgccattgct ggcaatgaca tcatatacag agactacgta tacgtcaccg 180  
acgctgctgg cacttccaag ggcccagtggtg tgccctggtat ccgagatgct cataccatga 240  
actttgctga cattgagaaa gggatgaa 268

<210> 41138  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H4

<400> 41138

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 gtgtgggtcac tgggtggaaag gagaggctgg atatataaaa tattggcgca cagtatggct 120  
 ttgtgttagc gccgggtgca aaaaagccaa acggctgggc ctaccggttc ccgagcacca 180  
 acacaacaat tctataccac tggatcatcaa cgctctgtga tttggagccc ctgaacccat 240  
 cataccgagc gaccagttat gccatgcacc tggaccgccc gcctgctttt ctgaagagca 300  
 acctccacag gctccatg 318

<210> 41139  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H6

<400> 41139  
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 ccgatattgg gtcagttatc ctgagatgga tagactggct gatgcgactc cagtgattct 180  
 tactacaaac atatcagaga atttcttgtt catgccagag ttgcttaccg actagatcaa 240  
 tgagaaatcg aggctcttaa ttctctgctc tacatct 277

<210> 41140  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H9

<400> 41140  
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 ccgcaagatc agcacatccg acatcaagta cccatagtgg ttatcccctg aactccagcg 180  
 ggtgatgccc aagcttcttt aaccgaaccc aaacaacagg atcacgatcg agaagctact 240  
 cgagcacccc atgggtcaaga aggagtacag gccggccgct atgctggcac atccgcacgg 300  
 cttcagcagc ctcaatgatg tccaagtctg cttcagtaac accgaccaca aagaca 356

<210> 41141  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A1

<400> 41141

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ggcatcatag agtctgtatc ggggtgaactg gaaaaggagc tccacacata tggagaggac 120  
acgtgaaaag cacgctacta cactggatca tctggaccgg gttgataggc atgaagagtc 180  
acccttgatt gagcaagcta ttcaaacacg catagtggac gattaagaac cttgacgac 240  
atgaggcact ttgcgagata caactcgata ggcttcacca tgctaacac tgactcgaga 300  
aaaattgact ttcacagacg ttgcgagcaca ataatgctgt accggaga 348

<210> 41142  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A10

<400> 41142

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gacctcgagg acaagttgaa tgagatccgg aagaccaaca gccacctgat tatcatcggg 180  
aagcccacag gcgacaccaa ggaggagtat gacgctgacg tggaggacga cgatgcagac 240  
aacgtcgagg agtctgatgg cgatgacttc gaccaggaga ctggttgacc caggcggctc 300  
cccgtcccc ccctgcttcg ccggcatcct tgagcgtcgc catccccact gccagttctg 360  
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gctgctgtct gttctcgga 439

<210> 41143  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G5

<400> 41143

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acgcatacata caacatgctc taggagtagg atacagtaac acagcagcag aacatccaac 120  
ccaacattct gccaaagtct gatcaaacgc caaaacctgc aacatgcgat ctactgaccg 180  
tacctcaagta actcacccca caccctacct tgatgccag agcagcttac cctctacaca 240  
cactactgcg cgaggcacgc accgaccaca cggcgagcta attatgtatg agtaagtta 300  
gggactgggc ttac 314

<210> 41144

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A11

<400> 41144

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cgtctaccag attttgtaga gccatctaag acaaaagtca ctactcttcc aaatggcgctc 120  
aagatcgctt aggagacatc atcgagccca gcagcatctg tgggtctgta cattgactgt 180  
ggttccattt acgaaacacc tgcttcatct ggagtatcac atctgttgga gagaatggcc 240  
ttcaagagca cagtgaatcg gactcactta cggttagatc gtgaggtaga agccattgga 300  
ggaaatgtct ctgcatcagc ttcccgtgaa caaatgagct atacctatga tgcattgaag 360  
agctatacac cagaaatggt tgaagttctc attgacagtg tgaggaatcc agcattcctc 420  
gattgggaag tcaaagagca gc 442

<210> 41145

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A12

<400> 41145

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<210> 41146  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E6

<400> 41146

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 cagccatgat ctctccagc aagctcaagt ccgtcgactt ctacaggaaa atacctaggg 180  
 atttgaccga ggcataccta tctggcgctg gattatccat tgtagcagca ttagcaatgg 240  
 tttttttgtt tggaatggag ttgagcagtt acttagcagt caatactacc acatctgtga 300  
 tcgttgatag gagttcagat ggggagtttt taaggataga tttcaatatg agctttcctg 360  
 cgctttcatg tgaatttgca tcagttgatg gtagtgacgt gctgggaaca tacagattga 420  
 acataacgaa a 431

<210> 41147  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E8

<400> 41147

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 gctgttgagg tttgtcttct tctcggccga agacatggcg gcggcgaacg gagctgccgg 180  
 tgcggtgctg ttcagcgagg aggacctgat ggaggtgagt ggggtgcgct ggggagagga 240  
 cttcgtggag gtgacgtgcg gatgcaccag ccacc 275

<210> 41148  
 <211> 251  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E9

<400> 41148  
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 aaaccaactg ccaaatacta tgtattccac ccatatttgg gcacaacaca gcccataggt 180  
 cccataaacac cgcattttca cagttcaagc cagaggagat taccaacatc attaaagact 240  
 tctactagcc t 251

<210> 41149  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F10

<400> 41149  
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 gcgcggggcct cctggagcca caccacggtg tacctgtggc tcgcgctcgc cgcagcagca 180  
 ctgacgcgcg cccaggctaa gaaggaccta acggagggtta cccacaaggt ctacttcgat 240  
 gtcgagattg acggcaagcc cgcaggtcgg attgtcatgg ggcttttttg gaagactgtt 300  
 cctaagacag cagagaactt ccgagctctt tgcacaggag agaaaggaat tggcaag 357

<210> 41150  
 <211> 87  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F11

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 ggcattatta acaatctcga ggggcac 87

<210> 41151  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F12

<400> 41151

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tgctttcggg ataatgagag tgggtgtcttg agagatttgt cctccatgcg acgattagtt 120  
gttgccaccg gaggtggtgc tggtatccga ccaattaact ggagatatat gaagaggggc 180  
ctatctgttt ggtagatgt gcccttggt gctcttgcta ggcgtattgc taaagtggga 240  
actgcctctc gtctcttctt ggaccaacca tctggtgatc cgtacgcaat ggccttttct 300  
aagctcagca tgcttgacaca gcaaaagggt gatgcttatt caaatg 346

<210> 41152

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F5

<400> 41152

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cagagagcga cccgtcaccg tcacgcttgg ctcgaagccg agaagagtgc cgggccggga 120  
gaccggacga taattgatcc gtagcagatt cgctaattggc ggagacggcg gacatggagc 180  
ggatcttcaa gcggttcgac accaacggcg acggttaagat ctcgctgtcg gagctgacgg 240  
aggcgctacg gacgctgggg tacacctatg tcgacgaggt gcagcgcgcatg atggccgaga 300  
tcgacaccga cggcgacagc tgcattgact tcaacga 337

<210> 41153

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F6

<400> 41153

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aagaatgcag taattctgaa tggtaaaaa atttagaaga ttatagaatt atctgcagaa 120  
taccaatccc tcagtgaaga gcacagcatt gaagcccaca gcagagttct acgacgcaga 180



tgcagtcaat aaaaacccca atagcacaaa agattaggag actgtcgatg cagctaaaga 240  
 agtgtggata taggcatgga gcacctgcac ctgcaacacg ccaacggtac ggacaaacca 300  
 tgagcttgag gccatttcac gtcctttcat aagcctcggc tagtgccggc gcgcgcaggg 360  
 tatcttttgt tccttttttc taacagtaat ttacgtg 397

<210> 41154  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F7

<400> 41154

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 cgagttttac gcggcgatgc ggcacaacct gagcagcgtg aaggacactt ttgaggaggt 120  
 gaagcagctg gaggagaagg ccaatgctgt catggcggtt gcttgagcgg cgattgcagc 180  
 ggcgctgaac accattaata acgagacgca tgctgagctg gagcatcaga ttgcttgagg 240  
 ga 242

<210> 41155  
 <211> 179  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F8

<400> 41155

cggacgcgtg ggccgaccgc gagcaagcgg accaaatcct gctccatatt ctatcgctg 60  
 cacgcattctg gccgcctcga ccctcggcgg cgggcggtgc tactacaacg atgatggggc 120  
 tggagatgga ggcgatggcg ggggccatcg gcgtgtcggt gcccggtgctc cgggtcctg 179

<210> 41156  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F9

<400> 41156

cgcacagctg ctctaaaccc taggagcgtg cttgaacagt ggcggatatg ttatagcgag 60  
 ggaccctttc gccgtatcga aggtctttgt atatcattac taccaaacgt tcgataccaa 120  
 ccgtgctggg cttgatgggc tgtaccatca gactctcatg ctcacctttg agggtcagaa 180  
 tttccatggc ccgtactaca ttgacggaac gcttggatct ttccattacc aggcctgtga 240  
 gcatcatatc tttaactggt gactgccatc cat 273

<210> 41157  
 <211> 131  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G1

<400> 41157

ctcatgttgt ttgttcttgc atgaggaatc taccactaat attgtcctca ttgatgcata 60  
 catgtgtgaa ctcaaagcat tgtgcatgct atacttattt atcaaacaaa tacaaaagct 120  
 tccttgtacc t 131

<210> 41158  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G10

<400> 41158

gtcctgctca cggaccagtt cggcaccgga tccaagcccg acctcctgca cctcatcacg 60  
 tacgttggca acatattcga ggtgcacatc atagaccacg ggatccatga cttctacttt 120  
 acgctcaacg aggccttgac ttacaactac acgctccaca ccacgcccgc actaaagtac 180  
 ccgctctgca tacgctttat tgcgacgatt cacggttacc cgctcttcga ctacaataac 240  
 ttgcctatc ataaggggtg caccacctat aatacctcac atggcttggt aataaccatt 300  
 c 301

<210> 41159  
 <211> 319  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G11

<400> 41159

caaacgcgat cgatgcatga aattccattc tccgatctcg gatgcgacga caccacacgc 60  
tgcgatggtg ggcgcgtcga ggcgacgtca ttcgtctcgg cagacatggc atgatagcca 120  
cgagaggggt ggcagcttga tgacaagcag tctgacaaga aaatgtaagg catattaact 180  
ggagacttct ttacgtttat atgatgatga atgagaaagg atggacagca tgggactgca 240  
cgagaaccat cagacaggca tctatgccta ttgattaatg aagcgatgag atatttacca 300  
aaaagctata atttcctta 319

<210> 41160

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G12

<400> 41160

caaaaacact cgattcatgt ggcttctttt atcaagagtg tattcaacga caacatcagg 60  
agggttaatt gcttgcttga ggcgatctca ttttactctg ccaacacctc atgataacat 120  
aagagacgac cgggcgcac cttacaactg ctct 154

<210> 41161

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G2

<400> 41161

gagaaaggag ggcctgaggc actctcagtc ttatactgac accaaacgag ccaaacaaca 60  
atgtgctcag agatctcgtg tccggaagct ccagtatatt gcagagcttg agagaagagt 120  
tcagtcctta cagacagagg gaatagaagt aactgctgaa atggattttc tcggtcagca 180  
aaatatcatg ttagacttgg aaaatcaagc cttgaagcaa cagcttgaga gtgtatctca 240  
ggagcatctt attaaacggt atcagcaaga gattgttggg agggaaatt 289

<210> 41162

<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E5

<400> 41162

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cgggagtgcc agtggtcgta ccacaggtat cgtgctcgac tcgggagatg gtgtcagcca 120  
cactgtcccc atctaccagg gatacgccct cccccacgcc atccttcgtc tcgacctggc 180  
tggccgcgac ctcaccgact accttatgaa gatcctgact gaacgcggct acttcttcac 240  
caccactgct gagcgggaaa ttgtcagga catgaaagag aagctcgcct acattgccct 300  
ggactacgac caggagatgg agactgccaa gaccagctct tttgttgaga agagctacaa 360  
gctggctgac tgacaggtca ttacctttgg tgctgagcgc ttttcgtgc 409

<210> 41163  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G3

<400> 41163

cccacgcgtt cggccacgcg tccgcaggaa agctggagat ggaagcgagg aggaattaaa 60  
gaggacaata aacaaagcag aaaaccatac aggcaatgac aggttgtgctg aggggttgtg 120  
tacttgtgtg agaggctgcc gcggacgtgt ggaacttagc ggggtgttgc atagttcata 180  
aacaattcgt ggagaaccaa tctagcaagc tagtagccta aaagtggaga tagccgatga 240  
ggtcttaaga tgcaactgaa gcaaaagagg ctactacatc aaggagcagt tcaaccactc 300  
atttgatggc ataatccatt tgatgaggtc ttagatgcaa ctgaacc 347

<210> 41164  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G4

<400> 41164

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 tggaggggag atggctgctg ctgatgtgga ataccgttgc ttagtcggcg gacttgccctg 120  
 ggccaccatg aacgagtctg tggagaatgc cttcgcctcc tacggcgaga tcctagacta 180  
 caaggctcatc accgaccgga agacagggag gtctcacggc ttcggttcg ttaccttata 240  
 ctactagaac ttgatgctag acgctataca gaacatgaac ggtaagg 287

<210> 41165  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C8

<400> 41165

cagacacatc cgactgcccg ggccaaacca aatcaacggc agcactgacg ttgttcacgc 60  
 tgatcctctt catcttgtaa aggggtgctca caagctcatc ctgagcactg ctaacgcccg 120  
 tggccgtgtc gctagcggcg atcatcttac tccatggctg agaaccacg cctgactagg 180  
 tgggtgcctaa caggaacgtt tcctgcctat ctacgagac gagcataaac attcggagac 240  
 atg 243

<210> 41166  
 <211> 385  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-026-Q1-K1-C9

<400> 41166

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 caatggcctc caggtcctcc atcgtactt gcaacggcga tgctggttgc gctgtttgcg 120  
 gttggtttgt gcaccacccc gctcaccttc caggttggca agggatccaa gcctggccac 180  
 ctgacctca ccccaatgt tgcaaccata tctgacgtgg agatcaaaga gcacgggggc 240  
 gatgacttct cttttacgt caaggagggc ccgaccggca cctggacgct cgacaccaag 300  
 gccccgtca agtaccctt ttgcatccgc tttgctgtca agtccggtgg ctaccgcac 360  
 gncgacgacg tcattcccg cgatt 385

<210> 41167  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-026-Q1-K1-D1  
  
 <400> 41167  
  
 accacgcgtg cggttaattg tggaggggag tgtcatgtat ctatacagcg tactctagaa 60  
 cgggttgcat gtaagcgcca tgtgagaccg tgagttctct atcacgcctg atcatggagt 120  
 aacagcggtt ctaaaatgca tgttgacatt ggccagctga cttggtgtga tctagcacia 180  
 ctatgaagag agtcatgaat ggcttgcatt atggcctcaa agatgtccat ttaattcct 238

<210> 41168  
 <211> 123  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-026-Q1-K1-D10  
  
 <400> 41168  
  
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 gcgggcatta actggctaga cggcgaccag atacgcacgg cgtcaacat ctattacacg 120  
 atg 123

<210> 41169  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-026-Q1-K1-D11  
  
 <400> 41169  
  
 gagaagatcg cgtccaagct ggctgccgac gacaagaaga agatcgagga cgccatcggc 60  
 gcggccatca gctggctgga cgccaaccag ctgcgccagg cggacgagtt cgatgacaag 120  
 atgaaggagc tggagagcct ttgcaacccc atcatcgcca agatgtacca gggcgcgggg 180  
 gccgacatgg gtggcgccgg cggcatggac gaggacgctt cggctggaag cgggtggcct 240  
 ggccccaaaga tcgaggaggt ggactaagcg gattgtgtca gtctcgtgtg tctgctgcag 300

tggctggctg gccagtcgc tgctcgattt attgtcatca tcgcggtgta tccgcgtag 360  
aacctttttt t 371

<210> 41170  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D12

<400> 41170

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atgagaaggt tgctgctctg cacttgggca agcttggtgc caagctgacc aagctcacca 120  
agtctcaggc cgactacatc agcgtgccga tcgagggtcc ctacaagcct gccactacc 180  
ggtactaggc acacggcttg cagcttactc gggccggttg gtgctatgaa gttegtaca 240  
ctggcctgtc aggtatctgt tgcattatca tgattatca tatacgcagt cgcgtagcag 300  
gttttcttat gggtatcgt tgagctgatg agggagggaa g 341

<210> 41171  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D2

<400> 41171

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ctgcgtcggc tggagggcct cgccaagcgc ccccgcgctc agaccctcct cgccaacgag 120  
atccgcaaca ttgaagctaa gatggcgaag gcaactgaac cgtcaccgga gccactagt 180  
gcggttccg cgcccgcggc ggcggcggcg cgttctgatt tgagctacgc cacgttgggc 240  
tcgttcagct gggaacagga caacgagaag atcaggatat atattcccct tgaggagtc 300  
gaacaaggga aggtggaggc tactttcaag ccaacatcag tagatgt 347

<210> 41172  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D3

<400> 41172

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gggccggggag ggcgtcgcg aggtggcgcg catggggctc gccggggacg ggtcggcgga 120  
caccgcccac ctcaagtaata atgaaaatgg gcggttcatt tatggagttg cgagttctcc 180  
tggtaaaaga gcatcgatgg aggacttcta tgaggcaaga atagacgacg ttgatggaga 240  
gaaaattgga atgttcgggtg tatatgatgg tcatggagga gtccgagcag ctgagtatgt 300  
taagcagcac cttttcagca atttaatcaa acacccaaag ttca 344

<210> 41173

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D5

<400> 41173

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atctgacgtg gagatcaaag agcacggggg cgatgacttc tcctttacgc tcaaggaggg 120  
cccgaccggc acctggacgc tcgacaccaa ggccccgctc aagtaccccc tttgcatccg 180  
ctttgtgtc aagtccggtg gctaccgcat cgccgacgac gtcacccccg ccgatttcaa 240  
ggccggcacc acctataaga ccacactcag catctaata gacctgatg atgaattata 300  
tttcaaaaga gtcacctgg cgctcacgtt agcaagacaa tattttctct atggttattt 360  
tggggcgcca aaccaccaa gaaatatgtg atgctacatg tcccttatga tgccttggtg 420  
tgttgggttg atattattac ataaa 445

<210> 41174

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-026-Q1-K1-D6

<400> 41174



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 tacgacgaca tgtgggcagg atggtgtgtg aaggatcatc ggcaccacct gagcctggga 180  
 gtcaagactg gcctgccata catctggcac agcaaggcta gcaaccctt cgtaacttg 240  
 aagaaggaat acaagggcat cttctggcag gaggacatca tccncttctt ccagaactg 300  
 accatcccca aggactgcga caccgtccaa aagtgtaca tctacctctc tggacaagt 360  
 aaggagaagc tgggcacgat tgaccctac ttngtcaaag ctctgacgc catggtcacc 420  
 ctggatcgag gcctgggatg ag 442

<210> 41175  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D7

<400> 41175

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 ggtgctccct ctagccatcg actacctcac agatccctgt aagccggacc ccattaccct 120  
 tctcggatag ctgtgccct accgacagga cttcacggga gcaagcctgg ggttgatcgg 180  
 aggactcggc atggatcggg gcacgaaacc acgcccagga cttctcacag atcacactgg 240  
 accgagcgt gagcgctgg aacttccctg ttcatgcgcg agttaggtgg accggagctc 300  
 tccgtcgtgc gttgaacatc gctgtgct 328

<210> 41176  
 <211> 172  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D8

<400> 41176

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 ggaaaatcta gatgccttgg atgaagctaa ctaagatttg catgacaacc ctttactga 120  
 tcaagaacct gtactatgga agaacacata agatttctta aagaaatatt cc 172

<210> 41177  
<211> 57  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D9

<400> 41177

cagacacgtg cgcctactcg tgggcaaact ctcacacatg aacaaatacc ttatcac 57

<210> 41178  
<211> 299  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E1

<400> 41178

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aacagcatgt cactttgcat tgtggccact tcaatctgga tcaagtgtgg tcagatcttt 180

tagtgattta acgcttatat tacttacaac aaaagataaa cccaccaatg cggacctcga 240

tgtaccgccc agttcagcag aagcgcacac cgagatgttc catctgagcc ctgctggcc 299

<210> 41179  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E10

<400> 41179

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agatcgaggg ccaccacctg agctctgccg ccatagtcgg ccacgacggc gccgtttggg 180

cccagagcac cgcattccca cagttcaagc cagaggagat gaccaacatc attaaggact 240

tcgacgagcc tgggtttctg gccccgatcg gctcttctt tggccccacc aagtacatgg 300

tcattcaagg cgagcccggc gctgtcattc gcggaagaa gggatct 347

<210> 41180  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E11

<400> 41180

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agatcgaggg ccaccacctg agctctgccg ccatagtcgg ccacgacggc gccgtttggg 180  
cccagagcac cgcattccca cagttcaagc cagaggagat gaccaacatc attaaggact 240  
tcgacgagcc tgggtttctg gccccgatcg gcctcttct tggccccacc aagtacatgg 300  
tcattcaagg cgagcccggc gctgtcattc gcgggaagaa aggatct 347

<210> 41181  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E12

<400> 41181

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gcagcagcaa cacactgcac aggggtgtcgt ggcaaacgt acgtcgatga gcaccttatg 120  
tgcgagatcg agggccacca cctgagctct gccgtcatag tcggccacga cagcgccttt 180  
tgggcccaga gcaccgtatt cccacagttc aagccagacg agattaccaa cattattaaa 240  
gactttgacc agccttggtt tttggccctc atcggactat tccattggcc caccaagtac 300  
atggttatcc aaagcgagcc ctgctctttt atccatggga agaagggatt ct 352

<210> 41182  
<211> 295  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E2

<400> 41182

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 caggggctcc gacttagagg aggtggaggt ggacgaagct gcggccatgg actcgcatatc 120  
 tctccgccac atgatcgacg acgactgcgc ctacaacggc gtcccgatcc acaacgtcaa 180  
 ctccaggatc ctctctaagg tcatcgagta ctgcaacagt cacgtgcaca ccgtcgtcat 240  
 acccgatgac tactctgtct tcgagggcgg cgaggacctc aagagctggg acgcg 295

<210> 41183  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E3

<400> 41183

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 gcggctggtc ctcttctgca tctgtcatgg tgagaaggaa gagtcaaagg gcatcgatgc 120  
 gaaagcgtcc aggcttggtg ggtccttcga catcaccaag ttgggcgcct ccggcaatgg 180  
 caagacagac agcacgaagg ctgtgcagga ggcatgggca tcggcgtgcg gcggcactgg 240  
 gaagcagaca atcctcatat ccaaggggtga cttccttgtc ggacaactca acttcacagg 300  
 cccttgacgg ggcgacgtga ccatccacgt aggatggcaa tctgctggcg accacggacc 360  
 taagccagta caaggcccat ggtaaattga atcgagat 398

<210> 41184  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E4

<400> 41184

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 ggcgcgcacg acgatcttgt gacctactcc gccaaagtgg acctatcct cgagcaactt 180  
 gccgacatca atgcccgttt ggattcccat gacgctcgtc tggccaagct agaccaggcg 240  
 tgggtcagcc cctttgcttc taccgcgggc tgcttgggcg cgagcgaggg cggcctgggc 300

gcgggagag gcggccgaat cgaggacgat gggggcaatg ggctgcaacc caacacaccc 360  
aaggaggtgg aggcggcggt ctacgttga 389

<210> 41185  
<211> 253  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A5

<400> 41185

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tagatccgga agaaagcaac catgcgcagg acgaccctta acatctgcct tgtatccctg 180  
gagatgagaa agacattatg ttcaactctt caagtctggt ctaccggctt tgatccacag 240  
tgcaaggtac gga 253

<210> 41186  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A6

<400> 41186

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tgggcgccct ggcgtccgcg ctccgtggtg cggcgccctgc cgccgcgaac gcgcccggcg 120  
gggcgttcag caactgggtg gcgatgaacc agcagagcta cgcgctgtac gcgcagaagt 180  
ccgtcgggga cgggggcaag gagcccctgg acaagaagct gtcggaggcg gagaagaaga 240  
aggtcacgta cgtggtggac cccagcg 267

<210> 41187  
<211> 265  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-026-Q1-K1-A7

<400> 41187

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gaggaaaaac aacttgcggc tgagttaatg aagcttagta gctaccaccg ttgtatgaca 180  
gttgctcaga gatgttatct tcattaagtg cttatattac cgctagttcc ctgtgaaatt 240  
tgttaaacca ttatatgtaa gtttt 265

<210> 41188  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A9

<400> 41188

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aatatccttc ttttattcca cacctactgg tataatttta aacaagtcct ctaattacca 180  
aacttttcta cattttgaaa tatcaaacad actaagctct tctttttctt caatcattac 240  
tatttcttgg caccactctt cttatttcat attttatcat tcccaacttt tctaccttta 300  
ttcaccaaca tcaaactttc ttttttctat t 331

<210> 41189  
<211> 240  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B1

<400> 41189

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aaaatagatt aatagccgga ccatggcgtc atcaggcgcg ctcttcgaac tagcccgctc 120  
gctagtggcg gccaccgcc cacaggtagc ggaggcaaag aagaagagag cggcggatag 180  
cggcgaggct gcagaagcga aaaagatcca ggaccattc tgctcgactc tgtgccaggg 240

<210> 41190  
<211> 310

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-026-Q1-K1-B10  
  
 <400> 41190  
  
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 ccaccgcccc acaggtagcg gaggcaaaga agaagagagc ggcggagagc ggcgagggcg 180  
 cggagggcgaa gaagatccag gacgacttct gctcgacgct gtgcgagggc aagaagggga 240  
 cggacctggg cgtgtgcaag gagtctcgcg ctctctccca gcagtccaac ctgggtgctgt 300  
 acggcaggat 310

<210> 41191  
 <211> 153  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-026-Q1-K1-B2  
  
 <400> 41191  
  
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 tcgcttgac cacaaccaac cttctccagg tgt 153

<210> 41192  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-026-Q1-K1-B4  
  
 <400> 41192  
  
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 tgggtgctgta cggcaggatc cagtgcaagg gcaagtgcac cgagcagaag ggcatacagg 180  
 cgccggacat gaaagtctgc caggaggagt gcgacaaggc gtacgtggtg aaggccgccg 240  
 atgtcaccaa ggctgcagc gtcacctgcg cctaggagaa gaacccgcgc cttagcgaga 300

actgcaagag gtcttgca

318

<210> 41193

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B5

<400> 41193

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gacgccgcgg acctcgtcac cccaggaag ggacgcgtcc ggcacgccgt gaccggggcc 120

cgggcgctgt ggatcacctt cgcgcgcgac atgggtgatcg agctctgccca ggagctcatc 180

gtgagcagcg acaagaccat cgacgggcgc ggagcgcagg tgcacatcgt gggcgcgcag 240

atcacgctgc agaacgtgcg caacgtgatc cttcacaacc tgcacgttca cgacgcctga 300

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cgac 364

<210> 41194

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B6

<400> 41194

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atgcaggcgg cggcggctgc aaatggcgca ggctaacttc acaagcctca gcagcagccg 120

ctggtggcgg gggcggccgc ctcaccgtcg gcggcggccg tgggtgctgcc ccattgggtc 180

ggcatgccgt tcgcgccgc tctggggcc acggacatgg tgatgcagcc gcacacatat 240

ggcgccttcg ccgacataat tcgcgccgac tcaact 275

<210> 41195

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B7



<400> 41195

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aaagatgatg gattgcttga atagatttca tgttgctctg ccaaagcctc gtgacaacaa 120

ggagaggcct gtttgcattc ctctggctgt tctggaagct agggctaata ctgctgcaaa 180

ggaaaagaag cttgagaagg acattgagaa tgagaatgga ggtgctgggg tctattctgc 240

aagtctcaag aaacattata ttttggccaa tgatgaatgg aaggagga 288

<210> 41196

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B8

<400> 41196

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tgccaaaatc aagtttacia aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 180

aaaaaaaaat aaggggggat gttttaaagg atcaaagttt 220

<210> 41197

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B9

<400> 41197

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cgcgccctt gcatggctcg ttgggggcag ctcttgctgc tcccccaagg tctcaccctg 120

gccaacatc accaccaact acaacgcaa gagactcacc cctagggcca cctggtacgg 180

tcagcccaac aagaccatcc actactgaca actgctggaa cctgcgcgat caataacatg 240

aacctgccac cctacagcgc catgacggcg tgccgcatct tccacatctt caacgacggc 300

aaggcctgcy gatcatgcta caaggcgaga tgcaaggaaa aacctgcatg atcgggcaat 360

ctcatcacgg ttacatcac tgac 384

<210> 41198  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C1

<400> 41198

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cttgttccat gtaagcgcca tccgagaccg agagttctct agcaagcctg atgtggggca 120  
acagtgtttc tcagaggcat cttcacgtcg gccagctgac ttgttgtcat ctttcacaac 180  
aatcaagagt gttatgaatg gcttgtatga tggccttaaa gatgtccttt taatccttct 240  
aaaaaatttg gatactcgag aaaaggttct tgagtatata gcagaagtga taaataaaaa 300  
tgcattccaga tctggcatg 319

<210> 41199  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C10

<400> 41199

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atgtgcaatg ccccaaagta cattgctgaa gctaggaagg ggtctcgttt tggatcatgac 120  
acacttggtg atgccatgct taaggatggg ctttgggatg tatacaatga ttgtgccatg 180  
ggaatgtgtg ccgagctttg tgctgacaat catgcctca caagagaaga ccaggatgca 240  
tttgctatcc aaagcaacga gcgtggaatt gctgctcgtg acagtcgtgc ttttgcattg 300  
gagattattc cgggtcaagt tcctgttggt ag 332

<210> 41200  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C2

<400> 41200

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 ccagcctgct ggcgctggcg ctggcagcgc tggctttcgt ctccagggcc gcggcgcagg 180  
 gcaacggctg ttccagcgtg atgatgaccc tggccccgtg catggacttc atctccagca 240  
 aggcgtcgga gccggggatc tctgtctgct cgggtctggc cggagtcgtg cagaccgacc 300  
 cccgctgctt ctgcatggta ctggacggca ctgccacgtc ctccggcatc ggcatcaacc 360  
 aaaccaaggg gcttgaactt cccg 384

<210> 41201  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A4

<400> 41201

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 cgggggggcaa gctctaaaaa acaagggtc tcaaaagaaa gatttgaaac atcacgtcat 120  
 tcaacacctc aagagatacc accatgaagt ggaaagggca tgtcaacaac gtgtcctgta 180  
 tggtaaagaa atcgtcgtaa ggggcaacga atcctgccaa atctaccaa tgcaaacttc 240  
 agctctgaag cattgtttta tcacttca 268

<210> 41202  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C3

<400> 41202

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 gtccttcggc cggagcgcgc acagcatgaa taagacagac gacgacacca cgagcccaaa 180  
 gaagagagcc atcgcggctg ctgatgacga ttgcaagcct gccggtgacg agtcaacgtc 240  
 gcggaagcgc ctctgtggac gtatgcgccc gctccgcctt cgcgggcagc ttgagtacta 300

cccggccgca accgcgccac cgttcgttgg ccacgccgat gtgtaccatg acgtgatcct 360

tc 362

<210> 41203

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C4

<400> 41203

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atcctccact tcgcgctgtt cctgcgccct ccttgtggca tcggtgctgt cgttccgcc 120

ggcgggtgttt aaggctggcg acgagcgggg atggacgggtg ccggccaatg gcaccgagac 180

gtacaaccac tgggcaaaga ggaaccgctt ccaagtcggc gacgtcctga atttcaagta 240

tgccaacgac gactcgggtgc tgctggtggc ccacgatgac tacaagcagt gcggcacggg 300

catcccgtg agctcgttta cggg 324

<210> 41204

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C5

<400> 41204

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tgcgcattta tgtccggaga ggtggggcga actacacaac tggactcgcc aaaacgcgca 120

ccctatgcgc cgaacttgct ctttactag agggctattg accatcaggc caccatgtct 180

gggaactaga aagaagccat tgattgcatg atgggcgcgt gaatcacaaa tgtggtcgct 240

gcatttgaag ccacattcg 259

<210> 41205

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C6

<400> 41205

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caccttcate aggggtgtctg gttctgagtt ggttcaaaag tatattgggtg agggctcccc 120  
gatggttagg gaactctttg ttatggccag ggaacatgca ccatccatta tatttatgga 180  
tgaaattgac tctatcggat ctgctagaat ggagtctgga actggcaacg gtgacagtga 240  
agttcagcgt actatgcttg aacttctaaa ccagcttgat ggttttgaag catcaaacia 300  
aa 302

<210> 41206

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G9

<400> 41206

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catgatgaat tacataatcg gactatccaa acttttgacc aacatcatgt agtctatctt 180  
atctatgtct atcctaacca tattcctcaa cctgatgat atacactaac atcgaatcaa 240  
tgagggtcaag accggagagg aaaagatcaa cattaacaag gaaggatgta acagtcaaag 300  
cgaatctcga gatgaatcaa gacttagatt tttcagatga agtttttgct atctttcgtg 360  
tggggacctt cggcctccga aagttcttaa aaacaggatt taacagtatt tctggagta 419

<210> 41207

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H1

<400> 41207

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cgtcaagtcg ttgctggaga aagagcaaga agcagacgac aagggaaga agaagaaggg 120  
gaagggcggc cacgagagga agaagccgtg cccggcgtac gtgctctggc tcaaggacca 180

gtggaccgag gtcaagaagg agaaccctga ggcagacttc aaggaggtgt ccaacacgct 240  
 gggcgccaag tggaaggctc tgggcgccga ggagaagcag ccctatgagg agcggtagcg 300  
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<210> 41208

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H11

<400> 41208

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 ggcgtgtggc cgatccaggg ttcatgagga agcatttcat gatttctact gacaatttca 180  
 agagtggacg gttgcacacc ttgctcacga gtgctttcag ccatgcagag tttaatcacc 240  
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 ctgcctttct attgaagttg tatgttggtg gagcacttac tggatcagta ttcttcttgc 360  
 tggagaaggc ttttctagcc tatcggaaca ggattatgta ggatgggata cttcaagagc 420  
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<210> 41209

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H12

<400> 41209

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 cttcgcctac tactggccgc agtacacgcc catcaccgag gcggctgccc atgatgtcat 180  
 gctgttcacc ttctccaaat cctccggcca tgccggtact aggctggggg gggcactggt 240  
 gaaggacact ga 252

<210> 41210  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H2

<400> 41210

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cgcgacacgc gcgccatggc catgctgggt cgctccgccg cgcacctctt cttcttcctt 120
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aacaacatcc acgaggcgtg cagcaagacg ctgttccccca aggtgtgcct gcacgcgctc 240
aaggacaacc ccgagtgcc a ggcggggggcg gtcacgccgc gccggtggc cgagctgctc 300
gtgtacgtgt cggccgaggt gggcatgacc ggggccgcgt tcgcgcacca cgagctcaac 360
tccatcaagg acgacgtcct gtacaagtgc ctcgacacct gc 402
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<210> 41211  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H3

<400> 41211

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tgtggctgct cgccatggca ctggcgctcg cctgcgtgct gctcgtgagg tccgccgacg 180
ctgctgccga ggcgtccccg actccaggcg gctccacct a cgggtgcaac ccggccacgg 240
acaagtcgtg caagcccag ggcgtggggg tgggtgtgcc gggcggcggc atcgacctcg 300
acggcgacgg tgacgaggac gagctgccgc agtttcagcc ccacctcatg atcctcggcc 360
atggccactg atgagtgtaa atgggttggt ggttggtcgt cctcagccga tctactggac 420
gacacgatgg cggtcacatt tgcg 444
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<210> 41212  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H4

<400> 41212

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acagctgcca aatcaatggg ttctcatcac ttaatctgac caaactggat gttctgtccg 180  
ggttgtcaga aattaagggt ggtgtttctt ataccagac tgatggacag aagctgcaat 240  
ccttccctgg ggatcttgat acccttgagc aagtacaggt caactatgag gttctgcctg 300  
ggtggcaaag tgacatttct tctgttcgaa gatacgatga acttcccaa gctgcccgcc 360  
tctatgtgga gaggatagaa gaacttgtgg tgttcccggt cactacattg gtgttgacc 420  
tggcagagat gct 433

<210> 41213

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-025-Q1-K1-H6

<400> 41213

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actctagaga gtaacatcac caatctgaat tcttcttctg aagtaggagc agctaatagc 180  
acaacagata gtaaggaaaa tctgagttct ggcagtaata ctaattcgag cactccatt 240  
gatgagagta atgctcaaga aattattaca gagaagggtc taaagaaaag aacttttagg 300  
gttccgttga aggttgtgga aaaaacaact ggtgctggaa caattcttct gaaggagttg 360  
tattctgaag canaaaatag gtttagggca ctcgataaga aggatgcaga acggaggaaa 420  
actgctgaac ttaagaataa cctagagtca tacatata 458

<210> 41214

<211> 453

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3075-025-Q1-K1-H7

<400> 41214

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tcgcgctagt ggcgccacc gcccacagg tagcggaggc aaagaagaag agagcggcgg 180  
agagcggcga ggcgcgagg gcaagaaga tccaggacga cttctgctcg acgctgtgcg 240  
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ccaacctggg gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 360  
tcacggcgcc ggccatgaag gtctgccagg aggagtgcga caaggcgtac gtggtgaagg 420  
cggccgaggt caccaaggcc tgcagcgtca cct 453

<210> 41215

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H8

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ccttaattat atctcataac gagcactatc ctaacttttt acttacattc ccattcttac 180  
cactatttcc tctactccta accacattcc ataaacctgc ttatattcag taacttccta 240  
aaaa 244

<210> 41216

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H9

<400> 41216

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cataatactt cacataacga tcacttccaa acttttcacc aacatcctct ttcctatctt 180  
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<210> 41217  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A1

<400> 41217

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 tcgccttcgc gacaaccaa ctggtgccgg cgtgtacctt cgttatcgtc ctcatcttcc 180  
 actacgagaa gtacggcat 199

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 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A10

<400> 41218

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 tccattctgc aaagcgtgga tgtgcaaggc ggagtgttgg acggaggcta agttaactgg 180  
 aggcaaagtc acgcaacaga agtgcagtag aggtgggatc aagggtggt gttactgcga 240  
 attctgcatt taattttgca aaggagaagg atcaccattt ctttgcttgg tcttgcttgg 300  
 gtcaataact 310

<210> 41219  
 <211> 142  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A12

<400> 41219

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 ctacaatctt catatcaaaa tt 142

<210> 41220  
 <211> 381  
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 <213> Zea mays  
 <223> Clone ID: LIB3075-026-Q1-K1-A3  
 <400> 41220

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 tcgcctccgc gacaaccaac ctctcccggt cgtgtacctt cgtcatcgcc ctctcttttc 180  
 gctacgagaa gttcgccatg cgcagcctgt ccagccaggc caaggtcgcc gggaccctgc 240  
 tgggcgtcgg cggggccatg ctgctcacct tctacaaagg cgtcgacatc acgccttggc 300  
 acaacaacct caatcttcgt tggcacgctt acccaacacc accatcacac caccaccacc 360  
 accaccaact acgcatggg g 381

<210> 41221  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-025-Q1-K1-G7  
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 cagatgaggg catcatatgg tgtcttgatg agtttatggg aactgatgtt gctgatgcta 120  
 tgattctgaa ccggctgttc agacaattgt tcagcaaagg cattattctt gtttcaactt 180  
 ctaaccgtgc tccagataag ctttatgaag gtggcttaca acgggacctt ttcttgccat 240  
 ttattgacac cttgaaagaa aggtgcatcg tgcaccctat tgcattctgt gtggactatc 300  
 gtcaactggg ttctgctgaa caaggattct attttgtcgg aaagcattac agtacgcttc 360  
 tgaaacagaa gcttcagtct ttaattggag aagaggaacc cagcccacaa actgttgaag 420

tatattatgg gtaggaaatt acatgttttt tt

452

<210> 41222

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F10

<400> 41222

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cctgtggatg ctcaggacga tgggtgcgca gctgctgatg cacgtgcgca ttgagatcac 180

ctctgccaaag gtcaaagacg ttcgcctgaa ggctgatcat atgggtgcagg tagggatgga 240

ggataactcat catgcaacaa gacaagctgt tcccttcgat cgatgggatg atgaccttca 300

taaactat 308

<210> 41223

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F11

<400> 41223

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gtgctcccgt gctgtcgtcg tggacgtctg ccttatggtc gccgagtcct cctcgcctg 120

cgctgccttc gatggcaggg ggccgacgta cgggtacacg gacgtgagcc ccgacggacc 180

ggataactgg ggcaagctga gccccgcgta caagctgtgc gggcagggga agcaacagta 240

catgatcgac atcgtcacca agcaggccgt cctcaacgc 279

<210> 41224

<211> 300

<212> DNA

<213> Zea mays

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<400> 41224

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 tcgagggcca ccacctgagc tctgccgcca tagtcggaca cgacggcgcc gtttgggccc 180  
 agagcaccgc attcccacag ttcaagccag aggagatgac caacatcatt aaggacttcg 240  
 acgagcctgg gtttctggcc ccgatcggcc ttttcttgg cccaccaag tacatggtca 300

<210> 41225  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F2

<400> 41225

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 gaggaactgg ggtgtagttc gtttcgccgt cgttccgta atggggctcg gtgtatgcgg 180  
 ctgctctgc caaggttggt tcgccccctt ggggaggagt tcggtgcatt taggaaacct 240  
 aacgggtggc tacagcccta gaaaatcttt gtaaaggcta cgtagtgaga ccctgcctgt 300  
 tcactttggt agtgtttaag ggtttgatcg gcccgaggca agaggggaatc acagcttgtg 360  
 ggtaaagtgc gcaacctctg cagagtatta tgaaactgat atatcagccg tgctcgcggt 420  
 tatgagcgtt caagggagct tcattgat 448

<210> 41226  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F3

<400> 41226

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 caaggaactt ggcactgtga tgcgctcatt ggggcagaac cctactgagg ctgagcttca 180  
 ggacatgatc aatgaggttg atgctgatgg caatggaacc atcgacttct ctgagtttct 240

caacctgatg gcacgcaaga tgaaggacac cgactctgag gaggagctca aggaggcctt 300  
 ccgtgtgttc gacaaggacc agaatggctt catctccgct gctgagcttc gccatgtcat 360  
 gaccaaccta ggcgagaagc tgacggacga ggaggtggac gagatgatcc gggaagccga 420  
 cgtggacggc gatggccaga tcaactacga tgagttccgg aag 463

<210> 41227

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F4

<400> 41227

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 caacatcgtg ggtacgtca ggggattcga tcaggccacc aacattatac tcgacgagtc 120  
 ccatgagagg gtctattcta gaaaggagg agtccaacaa cttgttcttg gtctgtacat 180  
 tatcaggggt gacaacataa gcgttgtggg cgaggttgat gaagagctgg attcaagatt 240  
 ggatatgtcg aagctaaggc cgcacccact gaagcctgtt attcactgaa gtccgagtat 300  
 gtctttgggt aatatgtgga ctggatggat gggtcactgt tgaatgcaag atgtaacatc 360  
 atcatggtga ggggactgaa gtatatggac atgtatcttg cgta 404

<210> 41228

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F5

<400> 41228

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataataaaa aaaaaaaaaa aaaaaaaaaa 60  
 aagggggaga aaaaaaaaaa ataaagggtg gtctgccaat tctaaagttc ctttctt 117

<210> 41229

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F6

<400> 41229

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ccagaaggag agcaccctcc acctggtgct ccgtctcagg ggtggcatgc agatctttgt 120  
gaagacactc actggcaaga caatcaccct tgagggtggag tcttcggata ccattgacaa 180  
tgtcaaggcc aagatccagg acaaggaggg catcccaccg gaccagcagc gcctcatctt 240  
cgccggcaag cagctggagg atggccgcac cctggcggac tacaacatcc agaaggagag 300  
caccctccac ctggtgctcc gcctcagggg tggcatgcag atttttgtga agacattgac 360  
tggcaagacc atcacctt 378

<210> 41230

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F7

<400> 41230

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ggcggggcggc ggcgagaact tcaagtcgca ggcggacaac ttcgtgtgctg 110

<210> 41231

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F8

<400> 41231

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taaattcaaa gtcaagaaat acaagatgaa ggccccctcg tccatgaagt tcagattcag 120  
aaccatgaaa gacggacagg tccgcaggtg gagggccggc aagcgccaca atgcacacct 180  
caagtctaag gaggccaaac ggagacttcg gaagcctgct ttggtgcatt tggcctacgc 240  
aaaggttata aagaagctca acttctgtgg gtagcaaata aataaagaca tagcggagtt 300  
tggcatggga aactagttaa ctgatactga ccgccaaccg ctgcatctca gttgtaaacg 360  
ctggagcctc tccttgacc aaatacttgc tttttgtcac atgatgcatt atctcgt 417

<210> 41232  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F9

<400> 41232

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catgatgaat tacataatcg gactatccaa acttttgacc aacatcatgt agtctatctt 180  
atctatgtct atcctaacca tattcctcaa ccctgatgat atacactaac atcgaatcaa 240  
tgagggtcaag accggagagg aaaagatcaa cattaacaag gaaggatgta acagtcaaag 300  
cgaatctoga gatgaatcaa gacttagatt tttcagatga agtttttctt atctttctgt 360  
tggggacctt cggcctccga aggtcctcaa aaacaggatt taacagtatt tctggagtat 420  
aatgtgtgaa ca 432

<210> 41233  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G1

<400> 41233

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tgctcgtgag gccgctcctg ggccgccc cgcacgcggc ggtgggtggac aagcacgcgg 180  
agcagctcgc caaggtgctc gacgtgtacg aggcgcacct cgcccgaac aagtacctcg 240  
ccggggacga gttcacgctc gccgacgcca accacgcgtc ctacctgctc tacctcagca 300  
agacccccaa ggccgggctc gtcgccgccc gccccacgt caaggcctgg tgggaggcca 360  
tcgtcgcccg ccccgcttc cagaag 386

<210> 41234  
<211> 219  
<212> DNA



<213> Zea mays  
 <223> Clone ID: LIB3075-025-Q1-K1-G10  
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 tgtgagatac tacaggacaa cactcacgaa gcttttcagg aacgtactgt tcgagaccac 180  
 cgctatgtct ttcttagctg tatcccctac aacagctta 219

<210> 41235  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G11  
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 agataacagg ggcaagatga accc 204

<210> 41236  
 <211> 132  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G12  
 <400> 41236  
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 gtcctcccgt gctgacgggg tgggcgaagg cctaaagctt gccaaagtcct ctttcgacga 120  
 cgttagatac ga 132

<210> 41237  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G2

<400> 41237

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gtccgagcgc acgacgacta cgttgctgct agcagcagtc atcctggggc tctgcatcgt 180  
tttcctctcc ccccgcggcg ccgctgtcgc agcgggtctc ccccgcgccc agcccgatcg 240  
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<210> 41238

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G3

<400> 41238

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<210> 41239

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G4

<400> 41239

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cccagggatt tcgacttccc cgagacacca tcgctacgac gagcaagcag agcaccatct 120  
cggctgcctt aaactgtctc tccgccggat actacaccg ccgccgcagc gccgaccttg 180  
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ggactgagag atggagtttt gatttcaaata agcatctaga gaactgccac taagttttta 300  
agttagtata taatgggtgg ctggtgttgc tgttcgtcga gaacatctga agccgataga 360  
gcaccaattg atatatatcg tcaacaaaat cttgaagagc atgagcccgc tg 412

<210> 41240

<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G5

<400> 41240

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ccactacggc ttcttctgca agggctatgg caccgagatc ggtgagacgt tgtgcccgga 120  
gatcttgtgc gaggagagcg ccatccacaa ggctcgttcc acccaccacc gttggccggt 180  
cgtgcaattc tctgtagctg tatgagcatt tggagcctca tccctggaca agggggcgat 240  
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gataaagtca atcatagcat tggatcatct aaaaattata tttatatgga tggtaaagt 360  
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<210> 41241  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G6

<400> 41241

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agtggcggcc accgccccac aggtagcgga ggcaaagaag aagagagcgg cggagagcgg 180  
cgaggcggcg gaggcgaaga agatccagga cgacttctgc tcgacgctgt gcgagggcaa 240  
gaaagggacg gacctggtcg tgtgcaagga gtcttgcgct ctctcccagc agtccaacct 300  
ggtgctgtac ggcaagatcc agtgcaaggg caagtgcacc gagcagaagg ggcatcacgg 360  
gccgggcatg aaagtctgcc aagaagagtg cgacaaggcg tacgtggt 408

<210> 41242  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D5

<400> 41242

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tcgaaagggg caagggcagt aggggagtggt tcagtgtagg gaggtccttg gttgattttg 180  
ctgcgatggc ggtgaaaggg aaatgtgccc ttgggccatt ttaagtattt tgttgattta 240  
gtgtctaaca caagtgtta aatgtaaaat ggtggacaaa gtacaaacca aggataaagg 300  
tatgtttctc agacttagta catttgttta tgg 333

<210> 41243

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D6

<400> 41243

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aacggggagg tgtccggggt cacgctgctc aactccaagt tcttcacat gaacatgtac 180  
cgggtgaagg acatgctgat caaggacgtg accgtgacgg cgcccgggga cagccccaac 240  
acggatggca tccacatggg cgactcatcc gggatcacga tcaccaaac cgtcattggc 300  
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<210> 41244

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D7

<400> 41244

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attactattg ctagtgtctc acccccatgg tcacgtgcta cattgagtct aatcttgac 180

gagttgctga caactggtgg tcgtgggcta tcaagaatgt gtacacggca tcctacacca 240  
 ggatgaagat gtgtagctac gagctcattt ttaatgaacg gcaggggttc gtgtaatact 300  
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<210> 41245  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D8

<400> 41245

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 catcatctgc cactccagag ggttcgacct gtcaagcctg ttcgaggtgg accaagagca 180  
 gaagggcagc aactcgcggt tcatgaccca gaaaccggcg tcggcgatag tgtcaaagct 240  
 ggagcagatc gctgagacag agcgcttcat ggtgaagaaa caggacgggc tggatgaagct 300  
 gcaggggtcc aagcaaggga agaaggggca 330

<210> 41246  
 <211> 460  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D9

<400> 41246

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 gaaccggtcc tacgccaggc ggctgcagga cgtgtgcagg gactacctca aggacccac 180  
 catcgccgcy ttcaacgaca tcatgacgcc cggcacgttc gacaacatgt acttcgtcaa 240  
 cctcgagcgc ggctcggcc tgctcagcac cgacgaggag ctgtggacgg acccagcac 300  
 caagcccctg gtgcagctct atgcatgcaa cgccacagcc ttcttcgacg acttcggccg 360  
 cgccatggag aagctcagct tggtcggcgt caagaccggc gccgactgcy aggtcaggcg 420  
 gcgctgcgac gcttacaaca gcggaccgc cgtcgccgcc 460

<210> 41247  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E10

<400> 41247

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cctctgcatg ctcaggacga tgggtgcgca gctgggtgaag cagagcgca tcgagaccac 180  
cgttgccaaag gcgaaggacg ttccggcgga ggcggatcag atgggtgcagc tagggaagga 240  
gggtactcag catgcagcaa gacgtgctgc tgcctttgat cgaagtgatg atgtccttca 300  
taagctatatt actgagctgg cctttcgcta cagagatcga gctgggggct acacaagaat 360  
gttaagaacc aggatacgtg gtgggtgatgc tgctccaatg gcctaca 407

<210> 41248  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E11

<400> 41248

cccacgcatg cgtggactca tatgccttgt ccgaatcgag gctatcagag tatacgcgca 60  
gggcagagat cacgacctgg gggacgacta atctactgtt aacgagggct cgaatgcttg 120  
agctagctgc aagactgaca ctgcctttaa gttcagcgaa ggaatctggg gggacgctaa 180  
gcttgcccgg tacgcaatcg gcgccaaact gaagcttgtc ggatgagagg tctgcactga 240  
acagcttact atggtaacct aaaaatcagt ggcatatgcg ataaatgata ggtgaaccga 300  
gctaattctaa cgcgaagggg cagagtact actccacata tgaaccggag cgttctatga 360  
ccacgcttga catgtgcatg gcagagcttg acg 393

<210> 41249  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E12

<400> 41249

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ataatgaaga gccgcagcat ggcatcatcg gccgcgctct tgggtgctagc cctcgcgcta 120  
gtggcgggcca ccgaccaca ggtagcggag gcaaagaaga agagagcggc ggagagcggc 180  
gaggcgggcg aggccaataa gatccaggac gactttctgt cgacgctgtg cgagggcaag 240  
aaggggacgg acctggctgt gtgcaaggag tcttgcgcgc tctaccagca gtccaacctg 300  
gtgctgtacg gcaggatcca gtgctagggc aagtgcaccg agcagaaagg catcacggcg 360  
ccggccatga aagtcttcca agaagagtgc gacaagg 397

<210> 41250

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E2

<400> 41250

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ctggtagagc aaaagtttct gaaagtacag atatagttac atttgctgat gtggctggag 120  
tagatgaggc aaaagaagag cttgaagaaa ttgtggagtt cttaaggaac ccagaaagat 180  
atgttcgtct tgggtgctcg cctcctcgtg gtgtcttatt ggttggtttt gcaaatgcta 240  
tcagtaatgg caattactgc ttgacaattg tgtttgttac catattgtta ttctttatct 300  
acaggtgggt cttccagggc ctggaaagac acttcttgca aaagccgtag caggagaagc 360  
agaagtcccg ttcataagtt gctctgctag tgaatttggt gagctatatg taagcatggg 420  
agcagctcga gtacgtgacc tatt 444

<210> 41251

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E3

<400> 41251

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 ataggacaat gcgctcgaca atccatttag ttccttgtcc acaacatttg aggcagcttt 120  
 atatagttcg aagtatttca atgtataggc tacaactgaa ttgttcatgt aactacatcc 180  
 tacttgetta gcagtgttta ttacaaaata accatatgct ttcacgatgc ttttaatttc 240  
 acatgaagtt gccttgagtc gtgcaaaagt attacttcac tccttttttc tcttccttta 300  
 tcacttatca tattatgatg taatttggaa caatgcctta aaaaacttat gttgtaggct 360  
 atcatgaagc tttctggtca aagtcctaaa agaattgagag acctatcaag tttgtggggt 420  
 tcaactccctt cccacctcat cctttctgtg tctac 455

<210> 41252  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-025-Q1-K1-E5  
 <400> 41252

gcggcacggg gccgcgaaga tcttttagcca cctgacgtc aaggctgagg aaccatgggt 60  
 cgggattgag caggagtaca cctttctcca gaaggacacc aagtggcctc tcggttggcc 120  
 gctgggcggc taccctggcc ctcagggacc ttactactgc gccgtcggag cggacaagtc 180  
 ctacgggcgg gacatcgtgg acgcgcacta caaggcctgc ctctacgccg gcacogacat 240  
 cagtggcatc aacggggagg tcatgccggg gcagtgggag ttccaggctg gccctgccgt 300  
 cggcgtctcg gccggcgacc agctctgggt ggctcgctac attcttgaga ggatcaccga 360  
 gatcgccggc gtggttgtct ccttcgaacc caagccaaat tccggggact ggaatggcgc 420  
 t 421

<210> 41253  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-025-Q1-K1-E6  
 <400> 41253

ggcgatggct gggaagggag ggaaaggctt gctcgccgcg aagactacgg cggccaagtc 60



cgccgagaag gacaagggga agaaggcccc aatctcacgc tcttcccgcg ccggcctcca 120  
gttccctgtt gggcgtatcc accgtcagct gaagcaaagg actcaggcaa atggtcgcgt 180  
tggtgccacc gcagccgtct actccgtgc catcctggag tacttgactg ccgaggttct 240  
ggagctggct gggaatgcta gcaaggatct gaaggtgaag cgtatcaccc ctgccattt 300  
gcagctagcc attcgtggag acgaggagct ggacaccctt atcaaggga ccatcgcagg 360  
cggaggtgtc atcccgaca ttcacaagtc cctgatcaac aagtccttcc aggagtgaag 420  
acttaggat gtgcatcttt agtttaaact agactttt 458

<210> 41254

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E7

<400> 41254

cgccgactct gccgtctccc tcgcctcttt cccctcgtct cgtctgcac ccctccgcc 60  
ggcccaagac ctcacacct ccccttcgcc gtgaacccta accccgcgcc cctcgccccc 120  
tccttctcgt cgtcatcgcc gcccgctttt ccgggcccc atcgctctt ctctttcacg 180  
agtggttcaa gcatgggtgt cgtgggctcc ggggactcct tcaacagcat cttttccaag 240  
gtgcaagatg aaaagctacc agctgtcttt tactacacgg cggtgtgggtg tggaccatgt 300  
agggcgatcg cacctttagt atcaaagctg agcagccagt atccaagat accggtgtac 360  
aaagttgaca ttgaattgga aggactgtga acaaaactcc gtgatctaaa catatgttca 420  
gtgccgacgt tccacttcta tcac 444

<210> 41255

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E8

<400> 41255

caagctgcca gccttccagc agagcaagca ctgaattacg atgatcaaag tggaaacctt 60  
gcgccacctc cttgggaggg tcagccagcg gcaagcaacg aaatgccaaa tggatgaattg 120

ggaggcgtgc aacctcttcc tgggacagct gggcagttcg gcggcatgca gcaggcactg 180  
 caaccacaag ttaaccacat gggagttcca caaaggcagc caatgtacag caaccagcca 240  
 ggggttgtgg tggcgccaac acagatgcag gcaggcttgg ggaaccagca gttgggttcg 300  
 acatccatga tgggcatgcc tccacagatg tatggcgggc gatcgagggc agccatgatg 360  
 taccocgcac aaatgccagt ggcgcgcgag caacccatgt attgtggtgg tgtcgtctgg 420  
 cagggtacat gc 432

<210> 41256  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-025-Q1-K1-D4

<400> 41256

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 tcgccgtggc ctcaccggtc gctctggcgc ctttcgatgt gatagagatg ctggccgaca 120  
 agcccacgta ctccacgttc ctgaagctcc tgcaggacac caaggtcgcg ggcgaggcga 180  
 atcagctccg gtcggcgacg ctactggtcg tccccgacaa acttgccaag cctctggcgt 240  
 cgctgcccgc cgataagggtg cggccggcgg tggagaacca cgtccttctc agttacttcg 300  
 accccatcaa gctggacgag atgaagacac gcaccgncat tcttcccaag ctgggtcttcg 360  
 gcaacgaaca gaaactcggc gtcctcaact acaccagggc cgacgacggg cagatgtact 420  
 t 421

<210> 41257  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-025-Q1-K1-C11

<400> 41257

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 gtgaagcccc ccttgcagct ggaggaaaag ggggagctgg agaaggaggt gtgggagagg 120

ttctacggca cgggcttttg gaggagcccg tcgcagctgg acgacaacga cgacaggtga 180  
 tcgggacagg cccgcgagcg agctatccac aagctcctcc ggcgatgcgt gggcttcctt 240  
 cgttttccgc gggaagaaga gaggatcgag gaaagggaaa catgattgtg tgttcgatac 300  
 tacgattacg aacttcgntt tcccttcttt tttggttggt tggaagggga aatacttctc 360  
 ttctattcta caacaatgtc acgtacatgc aatgtaataa taaaaaatgt atgtgatata 420  
 tttaacaatg tgattgatga 440

<210> 41258

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C12

<400> 41258

cccacgcattg cgaccagagg ttcagttcgc tctcattggg gccaccgcct acttattggc 60  
 tacactagcc cgcggatgcg agggcttctt gtgtaccatc gaggaggacg cgcctgggtat 120  
 gattaccttg aatactagac tccggaacaa agctgaaatg gtgcatactc gatgctgcaa 180  
 gagcaattac tgaactgaat ggtgtcacia gcctagatct tacacttaga agtactgcgc 240  
 tgtatatgtc tataagtaca ttcaaacctg ttcttagat 279

<210> 41259

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C2

<400> 41259

cgatatggca caggcaaggg aatgcgagaa gtacagtgag cgatttggtg gggcatgcat 60  
 gatcgagac aactgcgcca atgtgtgccg cggtagggc ttcttgccg gcaggtgcag 120  
 caccttccgc cgccgtgca tctgcactag gcagtgctaa acaagatgc tcgatcgctc 180  
 gccatgcac gacaacctat tcttaataac gttcattatc tcgttcttat ttatgacgaa 240  
 tgtcatgtat gttctgggtga ctgtcatgta tattctgatg actgtcatgt atcttggtca 300  
 tgtatgctca aggttcatta tcttggtcat gtattaagta tgttatgaat aactcaatat 360

ttattatttt gttc

374

<210> 41260

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C3

<400> 41260

tgcaacgttg attgtacttg tgacagtgac aaaaaacagt gcacttatga aaggcagtat 60

gctgaaatga gctccagcag tgggggtgctt ggtgaggaca tagtgtcttt tggcagagag 120

agtgaactta agccacagca tgctatTTTT ggctgtgaaa attctgaaac tggagatttg 180

ttcagtcagc atgctgatgg tataatgggg ctgggtcgtg gtcaacttag cataatggat 240

cagcttggtg aaaaggggtg cataagtgat tcgctctcat tgtgctatgg tggcatggat 300

attgggtggcg gtgctatggt actcgggtgga atgcttgctc ctccagacat tgatttttca 360

aactcggacc ctctccgcag cccatattac aacattgagt taaaagaaat acatgttgct 420

tgaaa 425

<210> 41261

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C4

<400> 41261

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cgtggccaag ctctgaagg tcgtcgcagc gcggccgtac tctgtgtcca tcatggagat 120

cagcgagccc attttgccg ccgcgttgcc ctccccctc gcggcgcccg gccgcgcgg 180

caagggtggt aagcgcaaga tcaagccatc agcggcaacc catgaggatt ccaacatgat 240

cccgcgcaag ccgctcgaag cagtgggtgt gggtaagggt aagggtggcca aagataccgt 300

gtccgagtca cctgtcctaa gcccccccc cgtctccgcc ccttagttgc gtgttgggcg 360

ccgctgcccg ccggcccccg gccaccatgc gtcgtgtctg cgcgcgcacg cagcattga 420

acgggagata gaatatggta tc 442

<210> 41262  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C5

<400> 41262

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 cagtgaccca cagaaaaata caattatgct gcagcttggga tatccaatca ggaccaagct 120  
 cggaataata ggagattcat ggtgtatgtg cactcgaaag gcatgattgt ggatgatgaa 180  
 tatgtgataa ttggatccgc taacatcaac cagagatcca tggaaggaac tagagataca 240  
 gagattgcaa tggctgcata ccaaccccag catacattgg caaatatgct ttctgctcct 300  
 cgtggataga ttttcgggta caggaaaata cagtgtacgt gttgaaactg ttatcctgcc 360  
 ccaggttggg atagacggtg gtacattcgt gttggtagaa ctgtgagaag aaaagatggg 420  
 aaaactttgc tttctttgct gtgatgatta 450

<210> 41263  
 <211> 344  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C6

<400> 41263

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 cagcgtctcg gaaaagagga gcagcacggc acggcggcga tggcgaggaa cgctccaata 120  
 atatgctaac ccgttctacc cagtccaatt agcagcctcc caaggagaag gagatccaat 180  
 cctgcgggcg ggcgtccccg tatcccatcc atcgatccga atctcggaat ctgcaggacc 240  
 ctgcggcgcg gcttcttctg ggagaagagg ttgctgccga agccaccgcc aggtagccat 300  
 gtcgtcctcc gtgctgaggg ctgcggccga cagggccatt cgca 344

<210> 41264  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-025-Q1-K1-C7

<400> 41264

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aggtaccccc cccggcagaa gatcgtgttc cacatcgaga agggctgcaa ccccaactac 120  
ctggccgtgc tggatgaagta tgtggcggac gacggcgaca tcgtgctgat ggaaatccag 180  
gacaagtgtg cggctgagtg gaagcccatg aagctctctt ggggcgcat ctggaggatg 240  
gacactgcca aggcgctcaa gggccccttc tgcattcgcc tcaccagcga gtccggcaag 300  
aaggtcatcg ccaaagacgt tattccggcg aacttgagac ccgatgccgt ctacactttc 360  
aacgtncaat tctactagac tttgaat 387

<210> 41265  
<211> 53  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C8

<400> 41265

ctcaaacttc ctcacattcg ttcaggttat cttaccaat ctcatttaca atg 53

<210> 41266  
<211> 450  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-025-Q1-K1-C9

<400> 41266

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ctgcaccccc tgcaccaggt caagctgcc caccctcgta tgggatgcaa tatccaccac 120  
caccaccacc cccagcagct ccaatccctc caccaggcac tgctccatca agtgatggag 180  
ctcagaacta tccacctggt gtaacaccac caagttctgg ctcattccact caccctgttg 240  
caacatcagt atatgcatca tctggtgcac caaatgcacc atcgatatac cctccaccac 300  
cttatagtta ttctcatac taccctccac catttcagcc accacctnca ccaccaccac 360

cggttagtgt tgatccctct cagagtattg caactgcacc ttggctaacc cacagtgtgg 420  
 tggtgccacc accacccgcg agtgttgatc 450

<210> 41267  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D1

<400> 41267

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 gaagtacgtg caggactcca agaacacgac ggacaagact atggtgccgc ccaccgtgta 120  
 cccaccgccc caggccatgg cgtccgcata cccgccgcaa caatattgtt cgccgtacgc 180  
 ggcgtacccg cggcagcctt acgggtaccc tgctccgcca ccgtacgggt acaatgctgc 240  
 ttccccacaa cgggcgatgt acaactacgc agcacagccc gtagctgcac cggcgaggca 300  
 tggcggaggt atggggatgg ggctcggcct agggctccta ggcgggtgcgg tcgggggggat 360  
 gatgctcgga gaggcgatcg gtgactatga gaccgacgcc gcttatgatg ccgggttcaa 420  
 cgatgcattg gcattttaga tctatg 446

<210> 41268  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D10

<400> 41268

cccacgcgtc cgcaggaact tcccccgca gctgacgcct ttgtactaca accagtcggg 60  
 gccactgatg cctctgctct gcaaccctt cagcctgat ctgagggacc gcaactgcag 120  
 cagaggagag gttaccttgg acaacgcaac ccaggtgtgg aagaagtacg agtgccagag 180  
 caccaccgtc tcaggaggag ccgagatctg cgcgacgggt ggcgtgtga cccccagcat 240  
 ctacgggcag atgaccgcgg gcgtgacggg gagccagggg ctgtaccagt acgggccttt 300  
 tctcatccag ctgcaagact gcaccttcgt gcgcgacacc ttcacgacca tcaaccaagg 360  
 ctactgcccg gagctggagc gctacagcaa gtgggtgtac gtgggcctcg tgatggtctc 420

gttggc

426

<210> 41269  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D12

<400> 41269

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caacctaata ccttaggttc ccagctttac acgggcgcta cgaatcaacc gtattcttct 180  
ggaccatctg ctcccttatcc aagcggacct ccaacaacat ttcacagcc tgtagcacct 240  
gttcaatatc agagtgtgc tccaccagta tcttcttttg gtccaaccac cctgtacca 300  
ggaacagtcc ctaaccagat gttttcccat tctgctgcta ctaactcgac ttgcagggtt 360  
atgccatcga acaatcaaag ctttgctcca aggccagggt taagtccgtg gcagccctta 420  
ag 422

<210> 41270  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D2

<400> 41270

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ctagcgtggt cgcgcgatgt cgccaacgcc ggccacgcca agcccctgac gcctggcggg 120  
cgcgtggtac accacaacca cggcaagttc acggccgggc cgtggaaacc cgcccacgcg 180  
accttctacg gcgggcggga cgggtccggc accacggcgg gcgcgtgcgg gtacaaggac 240  
acgcgcgcgc aggggtatgg cgtgcagacg gtggccgtga gcacggtgct gttcggtgac 300  
ggcgcggcct gcggcgggtg ctacgaggtg cgctgcgtgg acagccctag cgggtgcaag 360  
cccagcgcgg cgacactggt ggtgacggcg accgaccttg tgcccgcaca cgacc 415

<210> 41271



<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D3

<400> 41271

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tgcgtcggcg agagcgggtga tcgcctcacc cgcgccgcca aggtactgga gcagctgagc 120  
ggccagtcac cgggtattctc caaggcaagg tacactgtga ggtcgttttg gatccggcgc 180  
aatgagaaga tcgcatgcta tgtgacgggtg cggggtgaga aggcaatgca gctgctggag 240  
agtggcttga aggtgaagga gtacgagctg ctgaggagga acttcagtga cactggctgc 300  
tttggatttg gcatccaaga gcacattgat cttggcatca agtatgatcc atctactggt 360  
atctacggca tggacttcta cgtcgtcctt gagcgtgctg ggtacc 406

<210> 41272  
<211> 155  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C10

<400> 41272

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caacacccag ggcggcaggt gggaggacat gagctaccat tgaaccatgg ttgcagcccc 120  
agtacgcgct tgagtgtctg tgctggctct agcac 155

<210> 41273  
<211> 223  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A2

<400> 41273

gagatttggc gatccaagta gatcagaaga atgaagctgt cctcttacct atttatggta 60  
ggatggttcc ttccatggt tctactgtca agagtgtgac aagtcaccag gacaaccgca 120  
cctgcactat ccgtatcttc ttcaatgtgc ctggcatgcc attctcaaatt gatagcaagt 180

ttaattctca aggtgctatc tatctgaaag aaattacatt ccg 223

<210> 41274  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A3

<400> 41274

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tgaagagccg cagcatggca tcacggccg cgctcttggt gctagccctc gcgctagtgg 120  
cggccaccgc cccacaggta gcggaggcaa agaagaagag agcggcggag agcggcgagg 180  
cggcggagggc gaagaagatc caggacgact tctgctcgac gctgtgagag ggcaagaagg 240  
ggacggacct ggtcgtgtgc aaggagtcct gcgctctctc ccagcagtc aacctggtgc 300  
tgtacggcag gatccagtgc aagggaagt gcaccgagca gaagggcac acg 353

<210> 41275  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A4

<400> 41275

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cggagaagac agctatctcc atagaccgaa ggaccttcca aattgaaaat aataataata 120  
tgagatcagt ctgggctggc ttgggcagga agcgaacagc gcagtataca attgcccctt 180  
tgcagagctt gtcgcttgga gtttaaggct gctggtggca agaatacatg gcaaagtcag 240  
tcgtaaattc atactgtaat acatattcct taggcatgcg aggcaatatt tgcccagagc 300  
caagctgcgg acaagctgcc atcgctgtcc gtccat 336

<210> 41276  
<211> 159  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A5

<400> 41276

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gaaggggtgag gttggaccca agacaatcca tgttccattt ggggggaacc ttgcagtttt 120  
tgatgctggt ttgaaatcca aaattgaagg gcttgcctt 159

<210> 41277

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A6

<400> 41277

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ttgctgatac aagtgtcact gctgatagca atggaagcga tccatttgca gatgtatcat 120  
tccatgaggt agaggctaag gagactaatg atctcttctc aggattgata gtagaagaaa 180  
aatcatcagc taccatgcac ggcagttctt catcaaacia aaatgaatta ccagatatct 240  
ttggcagccc ccttgattct ttcaccaag gtagtggtac tgaccaagga actgtcaatg 300  
atgtgatgac tgggttgaac cttaatggaa caggtcaggc tcagcctcca gttaaagcag 360  
aacccaatag caccttcagt ggatcacagt tctttgatac aaacaatgac atcgcccatg 420  
t 421

<210> 41278

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A8

<400> 41278

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agggtgatta tcatattgat tatgtgcctg ctccaagaat taccgaggcc gacaaaacia 120  
atgaccagaa gtctttataa cgagctcttg ataataaact ttatctcctg ctgtatggca 180  
atgcttatgg ggctcctgat ggaaagcctg tatggcattt tccggaaaaa gtatacgaaa 240  
atgaagaaac tatgcgactg tgtgcagaag ctgcattaaa atctgttctt gggggacttg 300

accatacata ctttgttggc aatgctccaa tggctcatat ggcagttgaa caaacagatt 360  
 caagtgtttc atcattcaag cgtttctttt tcaagtcaca agtggttggc acaacgaaat 420  
 accatgttgg aaaatgcaag gac 443

<210> 41279  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B1

<400> 41279

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 ccgtagcaag aacatcacca cgggccagca ataatggcgc agagcatgag gattgtggcg 120  
 ctggcccttg tggccctgct ggtgggtggcg gcggcggcgc ccgtggccac cgcgtacggc 180  
 tgctacgacg actgctacga gcgctgcgcc aacggcaaga aagaccccg ctcaccaag 240  
 atgtgcaacc aggcgtgcgg ctccacggat cagggcgccg gtgcgcgcgg cgcgcgcgg 300  
 gcttgatcgc ccagcgcatt catcgcttca gctcgatata atcgctgctc cgtcagcaac 360  
 ccacatatga ttcgatcaat tttccttctc taatttctcg accccgctga attttttttc 420  
 ctttctattc ttttactata ctactactat ctgttt 456

<210> 41280  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B10

<400> 41280

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 cagaccacat taagtcgcgg gggacatgaa caacgtcgcc tgcgctgtac ttgccgccgt 120  
 cgtctcctcc accgtagtcc ttgtcgccga ggcccccgct ccctctctca ctaacgcctc 180  
 ctttctgctt ttccctgcgg tcatcaccct tcttagcgcc tccttgcttt acttctttgc 240  
 ctactacctt tagtaaacct taagtaggat cgaagggaga cgcttcttgc tttccatacc 300  
 tt 302

<210> 41281  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B11

<400> 41281

cgcaagcact actcggtcga tgttggtgtt gcgtggtaca ctgtaaactt agtagtagtc 60  
tgtgtcgaca acaagctggg gaaatgccgg atcggacgag tggactacat ttgcttccat 120  
taagctccaa agaaaaagag ggcaggcaga aggaggagaa agacagttaa ctgaaggacg 180  
agttccacaa gttactgaat ggggaaccatg cggatcctac tgatcggcga cagcgggcac 240  
agatgaacgg gaggcacgac gaagacatca atcacgcgct ctccgaggcc actgccaacg 300  
gcacgtaagg gcccgtcggc atctgctttt caccgggggc ttg 344

<210> 41282  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B12

<400> 41282

cccacgcgtc cgaccagggg ttcagttcgc tctcctttgg ccagtgccct acttattcgc 60  
tacactagcc aggtgattag agagtctggt gtgaaccaag gtggagatcg tcctttcttt 120  
gatttccttg agtcctgtct ccggaacaaa gctgaaatgg tcatacttga ggctgcaaga 180  
gcaattactg aactgaatgg tgtcacaagc cgagagctta cacctgcaat tactgtgctg 240  
cagttgtttt taagttcatc caaacctgtt ctgagatttg ctgctgttcg cacgcttaac 300  
aaggttgcat caactcatcc ttgggtgtc acaaattgta acatagacat ggagagctta 360  
atctctgacg agaacaggag cattgcaacc cttgcgatta caacactgtt gaagacaggc 420  
aacgaatcaa gtgttgatcg tttaatgaaa caga 454

<210> 41283  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B3

<400> 41283

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gacctgttca tgaacggcgc catcttgaat ccgtccggcg gcgcccccaa gcaggtcgac 120  
accaacgagt gggtaaagcc caagccagga acctacgtta caaggetcac ccgcttctcc 180  
ggcacactgt cctgctgcac gggcaagccg tgctgaaggc cgggtgggcat caggctgttt 240  
cttctagctc atggcctggc catgccaggt cgcgctggct gcgtttcatt tcatggaaga 300  
aagcaaggat ggatcacagg ttgtcgttct gctaattaat ctacatacgt ttgccttcaa 360  
gtactgtgtt gtggcattgt tacacatcac agtacagttt gggcaaattt ttttttcaca 420  
g 421

<210> 41284

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-025-Q1-K1-B4

<400> 41284

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tcttcctcgt cgtgctcctc ctagccgccg tcgccatggc gccgttcgcg ggcgcgggcg 120  
gcatcgacgt cgtcgagggc aggtccatgg cgtccgcgga cgcaccggag gccgtcgncg 180  
acgtccccgc tctgctcct ggccccgact cctcctcgac cccgtcgccg gcacccttca 240  
gcagcagctc ttctgactag ccgcccggca gagatatcta cggcgtccga tcagtctttg 300  
gcgccaccta taacctatcg gacctgcaa agctatatat gattctatgg tataatgtgt 360  
ggttgcggca aacgcgcgga aataatgtgc ttgcgtgatt ggttttctct ctcttttttt 420

<210> 41285

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B5

<400> 41285

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gaacggagaa gatgtactcg aacgccagga tgcttgacc actatagaca ggagcgacta 120  
agaggttcat ctgacagaca tggagaggaa gaaggacctt tgtgtcctgc ttggcgccga 180  
cgactgggga gcgagctggt gggactgggc tgctaacggg cgccctctga agggcgcgaa 240  
ggctcggaca gcggagaggt tggacataat tcaaggggcy cctcttgctg gcgtctgaat 300  
gacgcctgtg tgctacaaag cctgcttcga tgcatatagc ttgagtgtaa gacgacatga 360  
gcggtagaaa cgttaggatg caaccagtgt gagtatac 399

<210> 41286  
<211> 128  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B6

<400> 41286

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tctcgagatc ctcccctgtc ctgctgctcg aggagccgcc aaggatacca aaataccatg 120  
atgcaggt 128

<210> 41287  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B7

<400> 41287

gccgaaccct cctccgttcg ccgaggcgga gcacgccctt ccaggccagc ttccaccgga 60  
ggaggagcta agtcgcctgg aaggcttccc agctagtagc gtgtgccgta ccccgctcgt 120  
caaccgggat ggcgtcgagt ggggatccgc ccggatctgc tgatgagaag aaaactccaa 180  
tatccgaagg gtcttccgac gaacgtcaag ggcttccctc agcaggcttt tcaaatcctt 240  
ttgatcttgg ttctatgcaa gtttgctcaa tgatccatct attaaaggag atggcagatc 300  
aaatt 305

<210> 41288  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-025-Q1-K1-B8

<400> 41288

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 ggcaaaaatt attgcaggaa ggagcatccc agctattgca acttcaactg ccatggcgac 120  
 aggactagtg tgccttgagc tttaaaaagt tctggccaga gggcacccaa tcgaagacta 180  
 ccgcaatata tttgctaacc tggccctacc gatgctcacc acatctgaac ctcttcccc 240  
 cactgtgata aagcatggag atatgacgtg gaccgtatgg gatcggtggg ctatcgaggg 300  
 agacatcaca gttgcagagc tcctgaagtg gttaagcgac aagggcctga gtgcgtacag 360  
 tgtctnctgc ggcacat 377

<210> 41289  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B9

<400> 41289

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 tgatcggccg cgctcttggg gctagccctc gcgctagtgg cggccaccgc cccacaggta 120  
 gcggaggcaa agaagaagag agcggcggag agcggcgagg cggcggaggc gaagaagatc 180  
 caggacgact tctgctcgac gctgtgagag ggcaagaagg ggacggacct ggtcgtgtgc 240  
 aaggagtcct gcgcgctctc ccagcagtc aacctggtgc tgtacggcag gatccagtgc 300  
 aagggcaagt gcaccgagca taaaggcatc acggggccgg ccatgaaggt ctgccaagaa 360  
 gaggcgaca ag 372

<210> 41290  
 <211> 288  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3075-025-Q1-K1-C1

<400> 41290

cttctcctcc cctcttacc aagtcctctt cgggttaggg ttacttaggg ttttgtggag 60  
gggcgagtgg cggcggctga tgtggagtgc cgttgcttcg tcggcgggct tgcttgggccc 120  
accagcaacg agtcgctgga gaatgccttc gccttctacg gcgagatcct cgactccaag 180  
gtcatcaccg accgggagac ggggaggttt cgcggcttca gcttcgttac cttctccttc 240  
gagaacttca tgctcgacgc tatcgagaac attaacggca aggagctt 288

<210> 41291

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-D11

<400> 41291

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cagcccgcgc cctccatgaa gcgcaatccc ctcgtcacga gctcccgccg gaagtgccgc 120  
aaggcgcact ttacagtcct gttctccgtg cgccgcgttc tcatgtccgc ggagctgtcg 180  
accgagcgta cacacaagta caacgtgcgc ttcattcctga t 221

<210> 41292

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-D9

<400> 41292

cagtcattgt cgctacaaat atgttggaat gcatgattga ccattctact cccacgaggg 60  
cagaagtttc tgacatagct attgcagttc gggaaggagc tgatgccatc atgttatctg 120  
gcgaaactgc tcataggaaa gtatccacta aaggcagtca aggtgatgca cactgtggca 180  
ctcataacag aatacagcct ttataacca actacttcta ctagtctcga tgcattctga 240  
caggtgtctac aaaatgaggt cttctacgca tgccagctaa gtaaaatgtt ctgatctcat 300  
gcaacgatga ttgacaacat ctttcgcaca ccaatcattg tctttacaca gacaggctcc 360

atggctgt

368

<210> 41293  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-E10

<400> 41293

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ttatattggt gatgcttaaa acaaagact gtttacgtgc agtcagtcac gccctgggtg 120  
ggggcagttc cttggagtcg tttatgatta ttggacgggt atcttctgaa gctgtgctgg 180  
atgctaaaag gatgaacagg aggtcctttc tcgatggatt gaagatatgg ctggaggaag 240  
ccctgctgga agctcgattc tttactttga agctgatgct atgtgttatg caacttagga 300  
agttgttgcc tggctaaaag cagttaggcg tatcatcagc ctttttgacc ggtagaactg 360  
ctgagttgac atctagttcc atatattttc ttgagggcga aacttgacat tttgcttaga 420  
agatt 425

<210> 41294  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-E11

<400> 41294

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agatgatggt tcaggaagtg gaaaggagt caagtacctt ggcaacattt gatgaatcaa 120  
caagtgttct ccggaaggct gaaggatga atcaaggaca ccgctctttg ctaatgcgta 180  
cccgtgggtt gctctccacg atgcaacagc aagatgttct tgataggtag gtactctcac 240  
tcctttatac agttcaaaac tgggatcact gaaaataagt gtataatctg ttcttatagc 300  
ttgcactatt tgttttacag tctaaatatt taaacttaat gaaatatctt tatatagtgt 360  
gtacacctaa cagctcttca catttcaatg agcatctaca aattgaactt taaccattgt 420  
tcctttcg 428

<210> 41295  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-024-Q1-K1-E12  
  
 <400> 41295

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 cgcccgtctc aacgccaccc gcaatggccc agagcacgag gatggtggcg ctggccctgg 120  
 tggctectct ggtggcggcg acggcgctcg tgcccacggc caccgcgtac ggctgctacg 180  
 acgactgcta cgagcgggtgc gccaacggca agaaggacga ccccgctgc accaagatgt 240  
 gcaaccaggc gtgcggcagc accgacaagg gcgccgccgc cggcgcgccg gcttgatcga 300  
 cccgggcttc atcggcgcg cgggtcagct cgatatcagc atcatataca atcgctgctc 360  
 cgtcgctcac gtcagcccat gcatgatctc tcgaccggc ccattgaatc ttctncttct 420  
 actatagtat atctttg 437

<210> 41296  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-024-Q1-K1-E9  
  
 <400> 41296

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 cctggcgata aactatttg cgtgggccc cttcttctcc cactcggagg cggacggctg 120  
 cgcggaac aaacgcacc tcaaccaccg aacatttaaa gcaactacaa cgacagacgg 180  
 gtaaccgaca gactcacgtg gtaccgacag gctaactgac accacgtcc tgacaacgtg 240  
 cgggtacag ggctaaataa cgaaaaac 268

<210> 41297  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-024-Q1-K1-F10

<400> 41297

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tcccgtctcc tccagtagcc cttccactcg caagaagcgc ggggcgttca gcctcttcag 120  
ggcgatgttc ctgtccttcg gccggagcga cgacagcatg aagaagacag acgacgacac 180  
cacgagcccc aagaagagag ccatcgcggc tgctgatgac gattgcaagc ctgccggtga 240  
cgagtcaacg tcgtggaagc gcctcgtgga cggtatgcgc ccgctccgcc tccgcgggca 300  
gctggagtac taccgctcgt caccgctcgt accgctcgtt ggccacgcgc atgtgtacca 360  
tgacgtgatc ctcccgcgt cgtcgcaggc acggttcggc ttcgagatca aggaagtggg 420  
catgacca 428

<210> 41298

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-F12

<400> 41298

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tctcccaaaa acttcgggtg cccgcacga gctgctcccc tccctcatat tttggtgtga 120  
gtaatctttc cccaatccga gctcccgttc gttctcccgc gtttttttgg taccgcacgt 180  
cgctttttgtg gatgttgccg gaagcgacgg tggtagaaaa gccatacact acgttcgagg 240  
atgaggcgct gggagattca acccgagaa tcagtcgctc caaatgttca gcgcgtatca 300  
tgacggaacc gccatacctt gcgagaagtt gtctccatcg gtgacaggct c 351

<210> 41299

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-G12

<400> 41299

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ccgcggctcc attttaactg gtcggcgctt ccgcgctgc cgtcttcccc ctctccctc 120

cgtaccactc gtcttcgtct agcctcccgc ccgcagccac catggcaccc ggctcttaca 180  
 ccgacatcgg caagaaaacc agagatttgc tgtacatgga ctacaacacg caccagaagt 240  
 tctccctcac cacctgctcg ccccatggca tcgcaatcac agctgcagga acaaggaaaa 300  
 atgagtccac cttttgcgat cttcacactc aaatttaaga acaataaatt gacggtcgat 360  
 gtcaaagcga actcagaatc acatcttgtg acaacaatca ctgttgttga 410

<210> 41300  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-G9

<400> 41300

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 atcacgtctc tcttcgttca tttccccctc ttcttgcaa ttgatgagga agttcagatg 180  
 caatttggtg cctcccttct tgaagtcctc gcttccttga acttctagta gtaacctgat 240  
 ggtagatcta tctctttcag cgggtgtattg ttcccaattt atttggaagg gtccccaatt 300  
 tacatgtgga gtgaataaga atgaggaatc attcatggag ttatgtgtgc ttcaaatgt 360  
 gtaaaaaaat agctcttctc aaagaacatg tccaggcagt ccatatgtac aaata 415

<210> 41301  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-H10

<400> 41301

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 gcggcggtga agccggcgct ggccaagggg acgccgtcgg cgtcgttccg gctccgcaac 180  
 gggagcctga acgcgggtgcg cctccgccgc gtgttcgacc tgttcgaccg caacggggac 240  
 ggcgagatca ccgtggacga gctggcgcat gcgctggatg cgctgggcct ggacgccgac 300

cgcgccgggc tgtccgccac cgtcgggcgc tacgtgcccg acggcgccgt gggccttcgc 360  
 ttcgaggact tcgacaagct ccaccgcgcg ctcggtgacg ccttcttcgg cgcac 415

<210> 41302  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-H11

<400> 41302

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 tcttcatggc ataccgcacg tctgtctgcg ccgcgagggt gatcacgtgg gtgaagggca 180  
 cgacgtctaa tagcttggcc agtaagcggc cgtccttgat gtctccctcc acgacgaaac 240  
 tcategtggc tggccatcaa cgcgcgctgc gcctttttga gcgatgggtc gtagtaggag 300  
 ttgaagctgt cgatgcctac cacacccttg ccgcgtttgc tgagcgccag cgagcaatgc 360  
 tctccact 369

<210> 41303  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A10

<400> 41303

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 agtgacaaat gacctgaaga aagctggcag ccttagattt tacaaaccaa aattcaaata 120  
 tttttttgt gatatggatg gtacgtgct caacagtaaa agtcaagttt cagcaaggaa 180  
 tgcagaagct ctaaggaag ctaggtcaag aggagtaaac atagttattg cactggaaa 240  
 ggcacgtcct gctgtaatcg acgctcttag tatgggtggac ttatctggaa ggactggtat 300  
 tgtttcagaa tcatcacctg gtgtattcct tcaggggctt gtgggttatg gtttggaagg 360  
 gagacggatt tataaaagaa atttgacca agaagtatgt agagaggcac tctcatattc 420  
 tatagagaac aagataccat tagtagcat 449

<210> 41304  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A11

<400> 41304

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 ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac agacagcacg 180  
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<223> Clone ID: LIB3075-024-Q1-K1-D10

<400> 41305

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 gcgggaagga cggtgttact ctgctgtggg atttggctga ggggaagagg ctgtactcgc 180  
 tggacgcggg ctccatcacc cactctctct gcttctcacc caaccgctac tggctctgcg 240  
 ctgcgacgca tgactctgtc aagatctggg acctcgagtc gaagcacgtt gtgcaggacc 300  
 tcaagcccga catccaggtc tccaagaacc agatcctgta ctgtacaagc ttgagctgga 360  
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<210> 41306  
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<212> DNA  
 <213> Zea mays  
  
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 tatcacctgt tttgcaagat ctatatgccca ccacctctcg gcatcatgca tattcgttca 180  
 cgacagctac ggctgttcgc atatctcggc gttacactag ttgaagacca tggacatggg 240  
 caacatcaca aatgtcttag acgagccata gcacctaacg ccgactgggc tgttaatcgg 300  
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<210> 41307  
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 <213> Zea mays  
  
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 gcttaacaat ttttatcata tgagtctgat gtttgtcagc ttccaattca catttcttgc 180  
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<210> 41308  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-023-Q1-K1-H10  
  
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 tccactaaag gcagtcaagg tgatgcacac tgtggcactc agaacagaat ccagccttta 180



taaccaact acttctccta gtcttggtgc atctgcacag ggtctacaga atgaggactt 240

ctccgcaagc cagctaagta aaatgttcgg atctcattgc aacgttgatg gcc 293

<210> 41309

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-H12

<400> 41309

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gtggacggga gaaatctggc ccttataagt cttgcagctt gttgcccggt tggcaatggt 120

gcatttgagg acagggcgta tgttttcaat gcatgtacat taaattcaat atgggtctggt 180

cacaactttt c 191

<210> 41310

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-H3

<400> 41310

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atctctgagc ttcatcagag agcgacccgt caccgtcacg cttggccgca agccgagaag 120

agtgccgggc cgggagaccg gacgataatt gatccgtagc agattcgcta atggcggaga 180

cggcggacat ggagcggatc ttcaagcggg tcgacaccaa cggcgcgaggt aagatctcgc 240

tgtcggagct gacggaggcg ctacggacgc tgggggtccac ctctgccgac gaggtgcagc 300

gcatgatggc cgagatcgac accgacggcg acggcttgat cgacttcaac gatttca 357

<210> 41311

<211> 262

<212> DNA

<213> Zea mays

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<400> 41311

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 ggcagccgag attttcgctt caaatgctgt gaggtgtcgt gtcacctgag gatcatcctg 180  
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 ggagttcgac ttgatctagg tg 262

<210> 41312  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-A10

<400> 41312

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 atattttttt gtcattgtacg tgcagactgg aatacaattt tgtatagtcg ttcattgaacc 180  
 ggtgaaaaat atattttttta atacatttgg ctaataaaga attattcata ttagtttctt 240  
 tttattttct ataaaacaaa cataatagat attt 274

<210> 41313  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 41313

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 tctttgcata tatatgttgt cagatatttg ctccacactt atattattct gatatttagt 180  
 tactagtagc tatgcaactc aattttcaat cacatgatta tgtatagttg tttctttgtg 240  
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<210> 41314  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-024-Q1-K1-B10  
  
 <400> 41314  
  
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 tactagtagc tatgcaactc acttctcaat cacatgatta tgtatagctg tcttctcgtg 240  
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<210> 41315  
 <211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-024-Q1-K1-B11  
  
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 tctttgcata tctacgttga cagatctttc ctgccactt atattatcct cacatccttt 180  
 tactagtagc tatgcagctc acttctccat cacatgcgtg tgtatacatg tactctcgcg 240  
 ctctagcgcc cttgataact aaagca 266

<210> 41316  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-024-Q1-K1-B9  
  
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tctttgcata tatatgttgt cagatatttg ctccacactt atattattct gatatttagt 180  
 tactagtagc tatgcaactc aattttcaat cacatgatta tgtataacttg tctttctcgcg 240  
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<210> 41317  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-C10

<400> 41317

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 cgagaacgtg cagcaggtgg tgggtggacag gctaggggag ccaggcgaga gctacgacgc 180  
 cttcacggcc tgctttcccg ccaacgagtg ccgttacgcc gtgttcgatt ttgacttcgt 240  
 cactgacgag aactgccaga agagcaagat cttctttatc tcttgggccc cggatacatc 300  
 gagggtgaga agcaagatgc tgtacgcgag ctccaatgac cggttcaaga gggagctgga 360  
 tggcattcat gtggagctac aagcaaccga cccgagcgaa a 401

<210> 41318  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G3

<400> 41318

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 ggcgtacagc ggggtcgccg ccggggctgc cctcgctact ggcacggcg tcattggcgta 180  
 cctgcgaaga tctgcctagc tagtgtgtg gcgcggcggc gcggcgcgca tattcgccaa 240  
 tgcaagagca aggggttctt gtctgcctt cgaatcacca cagaggtgct agtatgtgtg 300  
 gattacgtac ccaaccggtg tatgtgtgta ttctcttcta cacgaacatg taccatggca 360  
 caaagtttcc att 373

<210> 41319  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-024-Q1-K1-C11  
  
 <400> 41319  
  
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 aggaaggtcc tcgagatccg gccgtccatc aagtgggaca agggcaacgc cctgcagttc 240  
 ttgctcgagt ctctcggttt tgctggcagt aacagtgtct tcccgatata tatcggagac 300  
 gatagcaccg acgaggacgc gttcaaggtc ctgcgcaact tggggcaagg gatcgggata 360  
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<210> 41320  
 <211> 81  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-024-Q1-K1-C12  
  
 <400> 41320  
  
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<210> 41321  
 <211> 194  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-023-Q1-K1-E4  
  
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194

<210> 41322  
<211> 379  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-023-Q1-K1-E7

<400> 41322

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tacgagggcc acggccgctc cgacgggctg cagggtacg tgccggattt cgacgcgctg 180  
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aaggacgccc accaacttcc ccggttcctg ctcgngagt ccatgggcgg cgcctggct 300  
ctctcctcc accgtcgcg ccccgagtac tggagcggcg ccgtgctggt ggcgccatg 360  
tgcaagatcg ggcacgaca 379

<210> 41323  
<211> 231  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E8

<400> 41323

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gaacacgctg ggactcatgc tgcaggctag cgcacaccg cgcctctcg acgtgaccg 180  
gcgatggggg gcgcaacctt caccgatgcg cgccgcgaca tgggtcggac c 231

<210> 41324  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E9

<400> 41324

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 gttcggcgcc atggccgacc tgggcaagta caaaaccacg gtgaagggtgc agactatccc 180  
 gctgctgaag aacccggtgg aggacatcta ctactacgtg cccatgggtgg gtatctccat 240  
 cgggagcaag cggctcgacg tgctgaggg catcctcgcg ccgaggcccg acagcacctg 300  
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<210> 41325  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F11

<400> 41325

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 accttccagg ttggcaaggg atccaagcct ggccacctga tctcacccc caatgttgca 180  
 accatatccg atgtggaaat caaagagcac ggtggcgatg acttctcctt tacgctcaag 240  
 gagggaccga ccggcacctg gacgctcgac accaaggcct cgctcaagta ccccttttgc 300  
 atccgctttg ctgtcaagtc tgggtggctac cgcacgctcg acgacgt 347

<210> 41326  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F3

<400> 41326

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 aaggcagcga acacgatgac accgtctacc catacatcgc ctgcatctgc tctataacct 180  
 cgttccagga ggtgtacacg ttcaccgcca tgcgggacac gtgcaattac gctatcatcg 240

acaacctggc acgtctgaac aatcaacttgg acacgttcag catacgcacc gctcaggcgc 300  
gcattgcacgt cgcgaggccg atcaactacca tcccgcgc 338

<210> 41327  
<211> 382  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F4

<400> 41327

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aggaccccca aatcatgaag atggttcaaa gtggtgatgg gaggtgtgga tcaactcggtg 180  
cggcctcttt cgaggctccg gagaaaatga tttgtgaaga cgacacgtat cctaagaaac 240  
aagctttgtt tgatggggaa acacaattag ctggagacga gcattctcag tcacagaaaa 300  
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cttcaattca tacccttga tc 382

<210> 41328  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F5

<400> 41328

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agaaggcggg cgcggcggag aaggctgcc agcaggagct gctcaagtac gccaggaga 180  
agggcatcgt gtcaccgacc aacggcacgg ggtggtacaa gggcatcgcc cgggagttcg 240  
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agctggcgcg gcattgcgcg cgctggtcca accgcatcgc caaggactgc gagctcgtcc 360  
acagcggcca caagtacggc gagagcctgt tcaggagcca cgacgactgg a 411



<210> 41329  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G1

<400> 41329

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tgatctcaca ggtaaaagag catttatagc tggagttgct gatgataatg gttatgggtt 180  
ggcaattgct aaggctcttg ctgctgctgg tgctgagatt cttggttggt a catgggtgcc 240  
tgcggtgaac atatttgaga caagcttgag acgtggaaag tttgatgaat cacggaagct 300  
acctgatgga tctcttatgg agattgctaa agtatatcca ctggacgcag tttatgacac 360  
ccc 363

<210> 41330  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E3

<400> 41330

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ctcaaggcca agctggtgca cccggacaag aatccgggca acctgatgc tgcgcgcaag 180  
tttcaggaac taggcgaagc ctatcaggtc ctaagtgatc cagtgaaaaa ggagtcatac 240  
gataagtatg gaaaggaagg actttcacac gactatcttg aagattatgt tggccaactt 300  
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<210> 41331  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G2

<400> 41331

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 agagaggtca agctgaagaa catgtttgtac cacacagcca ggataaactc cctggccttg 240  
 tcacctgaca gtcgattggg tgccactggc tcaactggaca cctgggcaat tgtctacgag 300  
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<210> 41332  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-023-Q1-K1-C9  
 <400> 41332

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 cctttttttc aaagtacact acatccattg atattatgag caggaggggc atatctgctg 180  
 aattagctac agtgaagcca ctctttccag ggaagaatgt tagtgcacaa ggtggatctt 240  
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<210> 41333  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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<210> 41334  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D11

<400> 41334

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 acctcgcgcc gacaggcctg ttctctggac ctaccaagta catggtcac ccaaggcgagc 240  
 ctggtgccgt catccgtggc aagaagggat caggaggcat caccgtgaag aagacagggc 300  
 aggcaactcg cgttggcatc tacgacgagc cgatgacgcc tgggcagggc aacatggtgg 360  
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<210> 41335  
 <211> 150  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D12

<400> 41335

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 ggggctgtgc gcgcagatgg accgactctg 150

<210> 41336  
 <211> 205  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D2

<400> 41336

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gtgcgtaagg gtataacagc ataggtaatg taacgagtgt gtgcacatgt aacatgatga 120  
ccgagaagag aaacatgcaa atggagaagg aattggttct gcctttctaa caaaaatata 180  
atataaaaag gaagaacaaa taaaa 205

<210> 41337

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D3

<400> 41337

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tttaccagct tcatgtacct caaagccaaa gcaatcacct gagctgtgta tgttcccaca 120  
gtatgttgtc ccgacaatgc gcacaccatt gttcatactt aatgcagcct acgattcgtg 180  
gcagggtcaag aacgtcctat cacctagtcc agc 213

<210> 41338

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D7

<400> 41338

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tctctaaagc accctcttaa gcttctcagt ggatactgca cccaatgatg gctaccttgt 180  
gccctatgaa gaatgggata cttctaactg aagtatgaga taagattatc ctctctcca 240  
cttataaaaag ctactcatac atgaatgact acaatgtgcc aaattctaaa acattactcg 300  
acttttg 306

<210> 41339  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D9

<400> 41339

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ctacctcggc cggccgtgga aggagtacgc gaggacggtg gtgatggaga gcaccatcgg 180  
cgacctcatc aggccggaag ggtgggcgga gtggatgggc gacctcggcc tcaagacgct 240  
ctactacgcc gagtacgcca acaccggccc gggcgccggc accagcaaga ggggtcaactg 300  
gccaggctac caggtcatcg gacaggccga cgccacgcca ttcaccggcg gcgccttcat 360  
cgacggcgcg tcatggctgc agagcaccgg cagccccaac gtcatgggat tcaccaaagg 420  
gtaatgatcg 430

<210> 41340  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E1

<400> 41340

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agctctaata ttccagtaaa aagggaacttt gagatgcttg ccatggatga gcatgcatct 120  
gctttctcta gaggacctgc tgaagctttt cagtggattg ggcaccaat gagggctacc 180  
ttgtgccgta tgaagagtgg tttaatttta actggagttg gagataagat tctccgcctt 240  
tgggtctgctg aaagctgcaa attcatgaat gagtacaatg tgccaaattc taaaacatta 300  
gtcgactttg attttgatga aaataagatt gtaggtttga ccagctcca gatttgcata 360  
tggagacgca gtgaaccaag aggcataatt caatctggtg gagcctcatt caatcattgg 420  
ttatgcatga gctttgctga tccggag 447

<210> 41341

<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E11

<400> 41341

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ggctctctaa gatgttggcc aggtggtttg tgtctatcta gatccatagg g gatcttgat 120  
gttggatgaat gcatcattgc tgttcctcat gttaagcaag tgaagctttc taatgctgga 180  
ggcagaatta tcattgcaag cgatgggtgtg tgggatgatt tgacttgtga aatggctctt 240  
gattgttctc gtgggttctc atcagatgta gctgccaatc gaattgttaa tgaagcaacc 300  
cggcctcgtg gaatcagggg tgatactact tgcacgtaa ttgacattct accaccataa 360  
aatatagtcc cgagtcctcg taagagaccc cgcaggatta cattcaataa tgggtttcgc 420  
ataagacatc tagacgtc 438

<210> 41342  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C8

<400> 41342

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gaagaagcag aaaggattgc tcaaaaggag caccgttcaa agaaattggc tgtcatttcg 180  
ggggttggtg ctgcgcaact ctaccgcaaa ttgggttatg agctagaagg accttatatg 240  
gtcaaattgt tggcataata ccgtttcatt tttttcgtgc tcatgtagaa cagactagt 300  
tttataatgt aacttgtgta gttttttcaa aaaaaaaaaat aaatatttgg tatacccttc 360  
tttttaatat tgagtcgtcc 380

<210> 41343  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E2

<400> 41343

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gcttcgttcg ggcaggatcat cggcgcccttc cccgacggcg acgagttcgg cccccacgac 180  
gcccagctcg atctcagccg cggcatecca aggtttctaca tcatgcggtt gcagaaccgg 240  
ccgctgaaat tctctaccat caccaccac gccagcgtga cccagtgcct gggctccgtc 300  
ggcggccagg actggtacct cgggggtggc aaaccgtcga tcgtggatgg ggcgttcgag 360  
cag 363

<210> 41344

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B11

<400> 41344

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cgcgctcttg gtgctagccc tcgcgctagt ggcggccacc gcccacagg tagcggaggc 120  
aaagaagaag agagcggcgg agagcggcga ggcggcggag gcgaagaaga tccaggacga 180  
cttctgctcg acgctgtgcg agggcaagaa ggggacggac ctggctcgtgt gcaaagagtc 240  
ctgcgctctc tcccagcagt ccaacctggt gctgtacggc aggatccagt gcaagggcaa 300  
gtgcaccgag cagaagggca tcacggcgcc ggccatgaag gtctgccagg aggagtgcga 360  
caaggcgtac g 371

<210> 41345

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B3

<400> 41345

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tcaaaagcag gacccggggtt cttgtcaccc tgttgccgcy aaatgctgct gccatggagg 120  
 cacttcttat atttcttgac agaattgtctc atcctgtcga tgctgcggta ttgccagtga 180  
 catttggtct tgcctttgta gacgttatac cgcattgcaat ctgtaccaga tatggcctac 240  
 caaccagtgc taactttgta tggtctgtac gcattctcat ggtcatttgc tat 293

<210> 41346  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-023-Q1-K1-B4

<400> 41346

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 caaagttgct attgcgggag ctgaaaactg tgaaggcaga tttagctttt gcaaaggaac 120  
 gatgtgctca gcttgaagaa gagaataaaa tgttgctga gagttatgac aagggtgata 180  
 atccagaaga tgatgatctg atccgccttc agttggaaac actactagct gagaaagcac 240  
 ggcttgcgca tgagaactca gtatatgcac gagaaaacag attcctgcgg gaaatagttg 300  
 agtatcacca gtcactatg cangatgtca tatatg 336

<210> 41347  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B7

<400> 41347

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 cgtcgccttc aaccacttcg gcaggggcct ggtgcagcgg atgccaaggc gccgctgggg 180  
 cttcttcac gttgtcaaca acgactacac gcaactggctc atgtacgcca ttggcggcgg 240  
 cgacgcgcca accatcatca gccagggcaa ccgctacata gcaccaccaa acatcgccgc 300  
 caaagtgatc accaagcact acgcggaaga aggcgtgtgg aagaactggg tgtggcacac 360  
 ggaggacgac ctgttcatga a 381



<210> 41348  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B9

<400> 41348

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gcacggtgag gaagccggcg gcgcgcgcgc gcttgcgggg ccggcggcct ggccaagggg 120
gaggtggacg agctgcgcca gctcagaggc caaggccagg agctctggga ccacaacgga 180
ggcaacggaa acccagaca aaggcggaga tgacctgacc gcgaacatgg aacaaacaag 240
gctgattata gggaggggaag gctaagatac aactcggaaa tacaggaaga acaagggaaa 300
cgaaccaatc acccccgtgg aagctgacct ctgagagaac gaaaaccggg aaaagggacc 360
caactgaaac aaaattgaa 379
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<210> 41349  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C1

<400> 41349

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cgacctcgtc cgccacagac ccgtttcccc gctagagtta tcgttcctct gcagcgatgg 120
cgatcaagcg gaccaaggcg gagaagaaga tcgcgtacga caagaagctg tgcagcctgc 180
tcgatgagta caccaagggtg ctcatcgccc tcgccgacaa cgtcgggtcc aagcagctcc 240
aagacattcg ccggggcctc atgggcgact cggtggtgct catgggcaag aacacgctca 300
tcaggcgctg catcaaggtc tacgccgaga agaccggcaa ccacaccttt gaccgctca 360
tggaacctgt cgtcggcaac gtttgctca ttttcaccaa gggag 405
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<210> 41350  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-023-Q1-K1-C10

<400> 41350

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ctcatggtcg gatgaatggg ggtgtcgagc tatgcgcggt tgacgtcctc atcggagcaa 120  
accccttcac cgttggttgc cttgtaccgt ggcctgggaa gtcggtgact gctcatcatg 180  
gtaggaggcc ccgaccgacc gtgcaaccgt gtgccgacgc tgtggctgtg cgccaatgaa 240  
atcacgtgag gtcgtgagtc atctgaggat catcctggta actgaatctc aagtcccatg 300  
caagacaagg tccgangatg aggcgcatga angatgctgt gatgtgttc 349

<210> 41351  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C11

<400> 41351

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caagagcatg attcagtgga ttgctacatc acaggctctt cgcccttttg ttaattacta 120  
cacttttgag aacgtgtctc tgcaaagatt agaggagggtg atccagtgga tacgacttca 180  
tggtgggacg gtcggcgagt tgtggcatat gtcctggag tactcatctc agaggctggg 240  
aggagaaacg cacaagggtt ttttggcctg gttgcttccc agcgacaggc ccaagaatca 300  
agtgcattac atgtccgaat agcaataaac ccggcttttg tgaggagtgt gtgcatgaac 360  
gaagttattg ctgacaaaaa aaaatgaaat aaagataaaa gcgtatgtat cagttgccac 420  
gc 422

<210> 41352  
<211> 272  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C12

<400> 41352

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 gccgagacgg cggaggactc tgtgatgcca gtacctaaat ctgttgtgac aaaaggaggt 120  
 gttcaccaga gcaaggctgt tccgtcagca tcgattcatc atcaccact acaaggaggc 180  
 ataagatgga ctctgagtct tcaaacttgg taccccaata tggggatttc ccatgtcgaa 240  
 cctcaattca acaaaatgca caaccaccaa at 272

<210> 41353  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C3

<400> 41353

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 gacgttgtgc gcgcgcgcag gtggcgcgta cgcggggccg gggtgccgga agcacgtggc 180  
 gagggtcacg gactacggcg cggtcgggga cgggaggacg ctcaacacgg cggcgcttcgc 240  
 cagggctgtg gcggacctgg cgcggcgcgc gcccgacggc ggcgctgcgc tgggtggtgcc 300  
 gccggggaag tggctcacgg ggcccttcaa cctcaccagc tgcttcacgc tctacctcga 360  
 cgaggcgcc gagatcctcg cgttccatga catgaagcat tggccctca tagcttcct 420  
 g 421

<210> 41354  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C5

<400> 41354

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 gcctccctct acgtcctcta gcgaccgacc aacgcgccga gcgaagatgt cgtggcagac 120  
 gtacgtggac gagcacctga tgtgcgagat cgagggccac cacctcacgt cggctgccat 180  
 cgtcggccac gacggctcca cctgggctca gagcaccgcg tccccgagt tcaagcccga 240

ggagatggct gccatcatga aggatttcga cgagccgggtg cacctcgccc cgaccggcct 300  
 gatcctggga ggcaccaagt acatgggtcat gcaaggcgaa cctggagctg tcatccgtgg 360  
 caagaatgga tccgggggca tcaactgtgac gaaaacaggg gcagcactca tcattggcat 420  
 cttcgacgag ccca 434

<210> 41355  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C7

<400> 41355

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 tattgagtct gatcctgggtg tgttcactga gctgattcag caaatgcaag tgaaaggtgt 180  
 acaggtggaa gagctttact ctctcgatgt gggctctctt agtcaactgc ggccagtata 240  
 tgggctaatt tttctcttca agtggatacc cggggagaag gatgaacggc ctgttgtcag 300  
 agatcctaac ccaaaccctt tctttgcgca ccaagtcac actaatgcat gtgctactca 360  
 agctattctc tcagttctca tgaatcggcc tgaaattgac attggcccag aattatctca 420  
 attgaaggaa ttcacaggaa gctttacacc tgat 454

<210> 41356  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B10

<400> 41356

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 ttttagtgag aatgagaaga agctacttcg cttcgggggg gaagaaacta ccccgagcc 120  
 aggaaaggat gaaatagtca ttttcaagag cttcctaaaa gctgggttga gatttcctt 180  
 aaataggata atctctgatg tgctgcaaag atttggcatc tattttcacc aactgactcc 240  
 caacgcgatt gtcaagctca gcgtctatat ctgggctctt c 281

<210> 41357  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H3

<400> 41357

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cccatgtgcc actgattggt ccatctgcta ctccaacaca tcaaattgtct catccttttag 120  
gggggttcac tgctccacca ctctctctcc atgacacaaa tccgcatgcc agtcagtctg 180  
caaattctct aacaccagct ttctttgcac caccaccacc ctcttcaaca tctgtgacac 240  
cacctgcttc atccatgatg cctacagcac cacctcttca tccgacttca acagctgctc 300  
aacatccttc atatggcact cccttac 327

<210> 41358  
<211> 325  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-022-Q1-K1-H4

<400> 41358

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gttgccatga taatgcttcg cactttttac agagccattt ttggatccat tcagctggaa 180  
cctcaggagg aaccgcagga ggaaacaggc tggaagcttg ttcatgggga cgtattccgt 240  
cctccaaccc actctgactt gctctgtgtt tgtgttgcca ctggcggtcca attctttggc 300  
atgctcctag ttacaatgat cttcg 325

<210> 41359  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H5

<400> 41359

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 gtcgtccttg cagcgctcgt cgccggcggg tcatgcgggc ccccgaaagt gccgcccggg 120  
 cccaacatca ccaccaacta caacggcaag tggctcaccg ccagggccac ctggtacggg 180  
 cagcccaacg gtgcgggcgc tctgacaac ggcggtgcgt gcggcatcaa gaacgtgaac 240  
 ctgccaccct acagcggcat gacggcgtgt 270

<210> 41360  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H6

<400> 41360

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 caattccctt ccggagatac tgtgggggtg ttggtcgac cgcgcaagct aagtcgcgcc 120  
 actccaatgg gcagggcgcg tggcccgtta aatcagccag gttcatcctg gatttgctga 180  
 aaaatgctga gagtaacgct tatgtgaaag gcttggatgt ggaccaactt tattgtttaa 240  
 aacatccagt taaatcaagc ccaaaccag aggcgcgaa cttacgcggg tacagggcgc 300  
 atcaatccct acatgtccta accttgccac attgagctga tcttgtcaga gaaggaagag 360  
 cctgtgaaga aagaggctga caacattgtc gcagcaagga agcaatgaag tatatcagca 420  
 tgctgat 427

<210> 41361  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H7

<400> 41361

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 aaggactggc tggacgctaa agcgacatgg tatggcaagc cgacaggtgc cgggtcccgac 180  
 gataacagta gcggctgctg gtacaaggac gtgaacaagc ccccttcaa tagcatgggc 240

gcatgctgca acatccacat cttcaacgat ggtctggggt gtgggtcctg cttegagatc 300

<210> 41362

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H8

<400> 41362

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gcttcacgc cattggtgtt aatctgagcc aattcatttg tattgggccc ttctctgctg 120

tatccttcca agtctaggc cacatgaaga ccgtacttgt tctgtccctt gggttcctat 180

tctttgcaa ggaggccctg aatctccagg tagtccttga gatggttctg gccgttcttg 240

gaatgatatg gtacgggaac gcatctgcc aaccaggcg 279

<210> 41363

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A1

<400> 41363

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gaatcagctc cggtcggcga cgctactggt cgtccccgac aaacttgcca agcctctggc 120

gtcgtgccc gccgataagg tgcggccggc ggtggagaac cagtccttc tcagttactt 180

cgaccccatc aagctggacg agatgaagac acgcaccgtc atccttccca cgctgctctc 240

cgtcaccgac aagaaactcg gcgtcctcaa ctacaccagg gccgacgacg ggcagatgta 300

cttcggcgct cccggcgccc cctgctggc caagctcgtg aaggctcgtc cagcgcgggc 360

gtactctgtg tccatcatgg agatcagcga gccattttg ccggcgcggt gccctccccg 420

<210> 41364

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A10

<400> 41364

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ggcggggagat ggccggcggt caagcccaag aaggatctcc agatcaatcg cctcatgggc 120

acccacctcc tctccattcc agacttcttt acttctgcgg aggcgaaggc ttctattgat 180

atcgcttagt cgatgggctt tacgcaccat ggcagtttgg ggccacttaa cggggaggct 240

tacatagaca acgatcggat atttgtgacg gatccattgc t 281

<210> 41365

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A12

<400> 41365

atcacgacaa gatggcgtgc acagacaatg cgatgagagc cttgttctct ctggtcctct 60

tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120

ctggtgggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180

cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240

tcatacccaa gggcgacttc cttgtcggac aactcaactt cacaggccct tgcaagggcg 300

acgtgaccat ccaggtggat ggcaatctgc tggcgaccac ggacctaacg cagtacaagg 360

aacatggtaa ttggatcgag attctacgcg tggataacct ggtcatcacc ggcaaggg 418

<210> 41366

<211> 428

<212> DNA

<213> Zea mays

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ttggtgcaga aatctcattt gattctgcca ctgggaactt caccaaatac aatgctggat 180

tgatgttcac tcatgaagac cttatcgcat cccttaatat gaacaacaag ggagacaacc 240



ttactggagc ttactaccac aaggtgagcg aattgacaaa cacagctggt ggggcagagc 300  
 ttacccacag tttctcgacc aatgaaaaca ccctcacctt tggcgggcag cacactctgg 360  
 acccactaac cgtcttgaag gcacgcatca acaactcgtg caaagccagc gccctgatcc 420  
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 <211> 377  
 <212> DNA  
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<223> unsure at all n locations  
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<400> 41367

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 gacggtttcg accttgggat gaacatgctg ttgggaggag acaaggaaga tgatggcggt 180  
 tcaagcaagt cgcattggcaa gagcggaaac cgaaagaagc acctgaagaa caacaagaag 240  
 aggaagaggc attagccctg gactcacact cctgtatcac ttcaacatac ttgagtgtgt 300  
 gacatgtcag ttattttaca gatatgtag ttntaccata gtattgttcg atgtgaccc 360  
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<210> 41368  
 <211> 423  
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 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A7

<400> 41368

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 cttgtccatg gttcgcagca acgataccaa caccgcatt atttaattgg tagcctcctc 180  
 tagctacgca cgcattttta gtctcctaca cgcccttggg ttgtgcgtgg ctctgttaat 240  
 catctctcat ccttcgtctg ccatttctcc cctgagattt ttgttccttg ttggtaccat 300

gcattttggc aaataatatt gtgattccac tccccaaatt aaagtttggc tgtcgtatgg 360  
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 taa 423

<210> 41369  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-023-Q1-K1-A8  
 <400> 41369

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 gagcagtggc taagggaggg gtcccaactt caagaatcct tgcccaagaa tgtggaccca 180  
 gtactttggt cctgtgaaat caagagaaag gaagaagagc tggatacgtt ctgtcgaaac 240  
 ataacaaggc acaagggctc tccagcaagg acagatggca gcaggggttc agattacatg 300  
 cctacacctg atagagatta aatattttca cgatcacgag gtttctttac tgtacgggtca 360  
 cacatgt 367

<210> 41370  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-022-Q1-K1-H2  
 <400> 41370

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 tgaagcccc gtcaccaccc tcaattgtaa gctctccacc actgccacca atgaccttcc 180  
 caccttcacc agccgtccca tcaccacctn cacctgcacc atcatcacct ncaccgtcgg 240  
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<210> 41371  
 <211> 342

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-023-Q1-K1-A9  
  
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 acaagcccac gtactccacg ttcctgaagc tcctgcagga caccaaggte gcgggcgagg 180  
 cgaatcagct ccggtcggcg acgctactgg tcgtccccga caaacttgcc aagcctctgg 240  
 cgtcgctgcc cgcgataag gtgcggccgg cggaggagaa ccacgtcctt ctcaattact 300  
 tcgaccccat caagctggac gagatgaaga cagcaccgt ca 342

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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-023-Q1-K1-B1  
  
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 tcgcttgtcc atggttcgca tctacgattc caacaccgca attatttaat tggtagcctc 180  
 ctctagctac tcacgcattt ttagtctcct acacgccctt tgattgtgcg tggctctgct 240  
 aatcatctct catccttcgt ctgccatttc tccctgaga ttctcggttc taggtgggtac 300  
 catgcattct ggcaaataat cttgtgattc cactcccaca ttaacagttt ggcgctgtat 360  
 ggtttgtaaa cccagaacaa tatatatatg aggtgtgatt gaactgct 408

<210> 41373  
 <211> 355  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-022-Q1-K1-F11  
  
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 tggatggcca gatctctgct tcgttcttgt ccaacgaagc caggagctcg tccatggtgt 240  
 ccttaagccc tgcaaccacg ttgctgtacc tttcggagtt cgtcgtacac atgacgacta 300  
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<210> 41374

<211> 78

<212> DNA

<213> Zea mays

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<400> 41374

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<210> 41375

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F3

<400> 41375

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 ccgacggcgc catgccgac actccgggtc cctactctgg cgtcagcacc ctgccccttg 120  
 tagcgagggc atcgggtcttc ggcttcggtg tcgtctacgg gagcatcaag ctctcaatcc 180  
 tcaaggcaac atagcctaga aaggcagaag cgcattgctca tcactaagga cgacagggtc 240  
 gctacatgtc aatttctatg gaaggatg 268

<210> 41376

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F4

<400> 41376

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 caaatccatc aaaacttggc tgatgcagat ttttgaggaa agtgataata ctgacattga 120  
 aggtgttgac tccagcaatg catgttatgg tgggacagca gccctactga attgtgtgaa 180  
 ttgggtcgaa agtaactcct gggatggcgc ttatggtcct gtcgtttgca cggacagcgc 240  
 ggtttatgcg gaaagaccag ctcggtcaac aggaggtgct gctgctatag caatgctcat 300  
 tggtcctaata gctccgattt ccttcgagag caaatataga gcttctcata tggctcatgt 360  
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<210> 41377

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F5

<400> 41377

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 cgtcggcacg gcgtggagca acgggaggct gcacaacgtg aagcaccggg tgcgggtgct 180  
 cgcacccgtg ccgcgcattt ccatcgccat gttctgtctc gcaccaagg acgacagcgt 240  
 gagcgcaccg gcggcggttcg tggacgcgga ccaccgcgc aggtacaagg tgttcaacta 300  
 caacgactat cggagggtca gact 324

<210> 41378

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F6

<400> 41378

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 ggcgctgctg ggagcaacag cggccaggcc aagggggccg tcaccaccac cgatgttgca 120  
 cagaagattg ttaagcaggt tgagtatcag ttcagtgaca tcaacctggt ggcaaacgag 180  
 ttcttgctca agattatgaa caaggacaca gaaggctatg ttccgttgct agtcattgca 240

tcctggaaga agatcaagtc t

261

<210> 41379

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-F8

<400> 41379

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agatccagat cgtttcccca gatccagatc gcaggcgtga agggcaactg ttaccagatt 120

atgatccgtt ttcgagcttc gaggaatcga cgatcaagct tcggtgacca agtgacctgg 180

ttcttcgagt tctgcaaggt tgaagaccct gagcatctat ttggtgaaga aattgctgtt 240

ttcacgtggg aacatgggtg gtaaagatca tcctgtgcct acaatttcca aatcagagtt 300

cactggtatt tgtgacttcc catcagagat aacattgata gcanatgaaa atgaaaaccg 360

acttgatata ttggaagct 379

<210> 41380

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F9

<400> 41380

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gagctgaacc cctgaagaaa ccatcacttc cacagctcgt tggtgagcct acggaagcaa 120

ggtcaaattc gtttggtggg acccatgaat atcttgcccc agagatcatt cgaggagatg 180

gccatggcag ctcggttgat tgggtggactc ttggaatctt cctttacgaa ttactctatg 240

gcaagacacc attcagggga ccggataatg acgaaacact ctcaaagtgt atctcacagg 300

gcttgaagtt ccctgacagt ccagcattaa gcttccacgc tcgagatctg atcagagggc 360

tgcttgatgaa agaaccggag taccggcttg gctcgtcgag 400

<210> 41381

<211> 140  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G1

<400> 41381

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gttggcatcc acatgggcga atcatccggg atcaccataa ccaacaccgg cattgcccgtt 120  
gccgacaact gaatctccat 140

<210> 41382  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G11

<400> 41382

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gccccgctga tagcagaggc aaagaagaag agagtcgccg ccgccgccgc cgaggagaag 180  
aaggtgcagg acaacttctg ctgcacgctg tgcgagggca ggaaggggat ggacctggtg 240  
gtgtgcaaag agtcctgcga cctctcacag cgcttcaacc tgggtgctgta cggccggatc 300  
cagtgaagg gctagtgcac cgagcagaat ggcattaccg cgccgcagat gaaggtgttc 360  
caagaggcgt gcgacaagga c 381

<210> 41383  
<211> 383  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-G12

<400> 41383

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cttgctctcg cacccttccc actgccagcg gcggctgaag gcggcgcggt atcagcttgg 180

tgattttgtga gcgatggcgc cgccgggggc gcggcggtgg gcttacgtgc gcgtgatggc 240  
 cggcaccatc ctccgtggcg tacttggatt ctacgtcatg caccgcatcg agacctcgta 300  
 caaggcgaag atggaggaga ggctgcngaa gtaccaggcg catatgctcg gcaaagccaa 360  
 agagtcgcag catttgcagg acg 383

<210> 41384  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G2

<400> 41384

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 atggcttact ttgatgccac agagaatgat ttcaagtatg acattttggg ctctggtcag 180  
 ggtttggatt atcacactcg cacacatgcc gtaaaaacttt gcccaaaaga gtcacaggga 240  
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<210> 41385  
 <211> 147  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G6

<400> 41385

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 ggtggacttg gaaaagacta tttttga 147

<210> 41386  
 <211> 177  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G8

<400> 41386



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 catgccccat ggctgggtcat cttagcttat ggagttacgg tgaaaaaaaa acaagct 177

<210> 41387  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F10

<400> 41387

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 gcgtgcccg gcgcgtccga tacgcacgcc ggctggcct acgaccactg catggcgctc 180  
 ctgggcgcgcg acccgcgag catggaggcc ggctacaaga acatgcacgg gctggcggtg 240  
 ctggccacca tgatggccat cgaccacgcc gtcagcaccg agtccaagat cgtcgacctc 300  
 ctccgcgacg cgctggacaa 320

<210> 41388  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H1

<400> 41388

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 tcactagccg gggttcaagg cgcgccgaag cgactggcg catcgaagcc gtcgtggatc 180  
 gttcgactg agtcaaactg gaggaggag agagcaaac gacctgatcc tccttgacc 240  
 atctgc 246

<210> 41389  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H11

<400> 41389

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acctgatgtg cgagatcgag ggccaccacc tcgcggcggc ggccatcgtc ggccacgagc 180  
gtgccgcctg ggcgcagagc acggcggttc ccgagttcaa gaccgaggac atggccaaca 240  
tcatgaatga ctccgacgag ccagggcacc tcgcgcgcgac aggcctgttc ctccgacctt 300  
ccaagtacat ggtcatccaa ggcgagcctg gtgccgtcat ccgtggcaag aagggatcag 360  
gaggcatca 369

<210> 41390

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H12

<400> 41390

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acgaccactc cctccacaac gccttcagca cctacgggga ggtcctcgag tccaaaatca 180  
tcctcgatcg ggagacgcat aggtccc 207

<210> 41391

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D11

<400> 41391

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acgtgaaggg cctctacgtg gccggcgagg tcgcgtgcac ggggctgcac ggtgccaaac 180  
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ccatcgacct catggtggat gccgacggag atgccagacc gtcgctggcg gcgaggtggg 300  
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 ggacgaggca tgccaagatg gagctgcaat cagtgatgtg ggagtatgtc ggcatcgtgc 420  
 gctcgacggg gc 432

<210> 41392  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D12

<400> 41392

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 ctcaagaagg ggctcaattg tttcacttcc cggtggtggc gatgttcttg agggtagtga 180  
 gtttgtacat gctgctgctt tagtaagtca gtcagcactt ttctcaaagg gtcttgctga 240  
 accacgcatg tcagatgctg ccattggttca cccatctgag gtagctgcca aagggtcacg 300  
 ttggttaagat ttgtttgaac ctggagttag gcgtgccctg ttagtctgtg ttggaattca 360  
 aatcct 366

<210> 41393  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-D4

<400> 41393

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 aggctcagcg gcgccgccca gcagcagccg gaggatgaga gggagaggaa ggagggcggg 180  
 agtgggtgcg gcttccggat gccgctgcac taccgcgct acaagaaggc ggactacgag 240  
 gccatgcccg agtggcgcgt cgactgcctg ctccgcgagt acggcctncc cgccgacggc 300

gacctcgaca gcaagcgccg cttcggcacg ggcgcctttc tctgggcccga ccagtactga 360  
tctgatacaa ttcaac 376

<210> 41394  
<211> 95  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D6

<400> 41394

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gactgggttcg tgggtgtcgtt ctacgggtcc ttttt 95

<210> 41395  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D8

<400> 41395

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agaataatcc ttatcttggg ttcattctaca cctccttcca agagcggggc accttcatct 180  
cacacgggaa cactgctcgt cagcceaagg actttggcga cttaaagctt gcacaaatct 240  
gcggcatcat cgcctcggat gagaagcgac atgaaactgc gtacaccaag atcgtggaga 300  
aagctgtttg agatcgaccc tgatggtacc gtggctcgtc tggctgacat gatgaggaag 360  
gaagatctca atgcctggcc aacttgatgt tgacgggcag gacgaacagc tgttcgagca 420  
ct 422

<210> 41396  
<211> 420  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-D9

<400> 41396

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 cccccggcggc ggcggcgccg caggccacgg acgatcccg cgccgctgtg tcttgccag 180  
 aactagtcgt gccgcggcac gccgacttcg acgactggat ggagaagcac ccgtcggcat 240  
 tggccgcgtt cgagtcgggtg ctggccgccg ccaaaggcaa gaagatcgtc atgttctcgt 300  
 actacgacgg caccctgtcg ccgatcgtca gggaccccg cagcgccgtc atgtccgagg 360  
 agatgcggga cgcggtgaga ggcgtggccg agcacttncc gactgcatc gtgagcggga 420

<210> 41397  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E1

<400> 41397

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 tgctctctgg tctctttctg catcgtgcat ggtgagaagg aagagtcaaa gggcatcgat 120  
 gcgaaagcgt ccgggcctgg tgggtccttc gacatcacca agttgggcgc ctccggcaat 180  
 ggcaagacag acagcacgaa ggctgtgcag gaggcattgg catcggcgtg cggcggcact 240  
 gggaagcaga caatctcat acccaagggt gacttccttg tcggacaact caacttcac 299

<210> 41398  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E10

<400> 41398

tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc tcatacccaa gggtgacttc 60  
 cttgtcggac aactcaactt cacaggccct tgcaaggcgc acgtgaccat ccagggtgat 120  
 ggcaatctgc tggcgaccac ggacctaagc cagtacaagg accatggtaa ttggatcgag 180  
 attctacgtg tggataacct ggtcatcacc ggcaaggga accttgacgg gcatggccca 240  
 gccgtgtgga gcaagaactc ctgcaccaag aagtacgact gcaagatcct tcccaactcg 300

ctggatgatgg acttcgtgaa caacggggag gtgtccgggg tcacgctgtt caactccaag 360  
 ttctttcaca tgaacatgta ccggtgcaag gacatgctga tc 402

<210> 41399  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E11

<400> 41399

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 tcgaggagtgc caccaaagaa aataaggctc ctggcgacaa gaagacatgc gaagtgttgt 120  
 gcaccaagct cacaaaaaag cctagcgaag aaggcaaaca tgattgatga agtagcactc 180  
 cgataatata taccctagtgc gatgagtggc catctttgta gccatgtctg ccacacgatg 240  
 gccttgatta tattggetta ttgttttgtt tttggtttcc actagtatcc taattccttg 300  
 ttcatgtaac ctaatgtcac tcaaagcatt ttatatgctt cacttaatta aataaatata 360  
 aaggcaaaaag catgtttctgt ttt 383

<210> 41400  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E12

<400> 41400

gcgcgacccg ccgaccgggt gcgccttgtt tggcatctac aacggcatgt tccgccgccc 60  
 ccgtccgca ttcatgacct gcctccaccg gatcaacggg gccgaggccg aggccgaggc 120  
 gccgccgaac cagaagcccc ccgcgcaccg cgactccttc ctgcgcgcgc gtcccagcgc 180  
 catgcccggt ccggcgggcg cgcataacgg caggagcagg cc 222

<210> 41401  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E2

<400> 41401  
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 cttcgacacg ccggccgacg acttcccgggt cctcgtcggc gactgggtaca ccaaggacca 120  
 caccgtcctg gccagaacc tggacgccg caaggggatc gggcggcccg cggggctcgt 180  
 gatcaacggc aggaccgaga aggacccttc gaaccgcgcc atgtccaacg tgaaggccgg 240  
 caggacgtac ggtttcggcg ttgcaacgt ggcataaagg cgtttcttcaa cattcgcatt 300  
 cagaaccaca ttatgaagct tgtggagatg gaaggctttc acaccatgcg caacgactac 360  
 gactcgttgg accttcaca 379

<210> 41402  
 <211> 59  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E3

<400> 41402  
 ttaaattcttc ctcgcttggg atctaagcca acaactgcag aagtcagcc cttaaacct 59

<210> 41403  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E4

<400> 41403  
 cctttatatg tcatggggga cacacctgct attgaggcac tgcagaaaat gatccaaggt 60  
 aagtttagac accttcaggt tgtagaaaat gggtaagggt ttggcgtggt gggcctttcc 120  
 aaatggcctt ttggtgccat ttccagactt ggaaaggccg cagaaccaga aggtgcgctt 180  
 gccgcttggt gtaaaagggg ttgaccaaca gttaggtggc aacttcttag ttccacacat 240  
 tctcttgaga ctattagaga 260

<210> 41404  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E5

<400> 41404

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ggagaataag gaggccgagc aggaggagca gcagctaccg cacgcgaga aggataacgc 120  
gcccgtcgcc gccgaggaag acgaagcgga ttcggaggag accgagcgcc gcaaccgcga 180  
cctcaagtcc ggcttccacc cgcttaggca caaactcgtg ctctggtaca ctgcgccgac 240  
gcctggagcg aggtcgcagt cgtacgagga catcatcgag aagatca 287

<210> 41405

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-E6

<400> 41405

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gtgctcgcca cggcgatgct agctacacta ttcgcggttg gtttgtgcac caccgccgtc 120  
accttccagg tcggtaaggg atccaagcct ggccacctga tcttcacccc gaacgttgcc 180  
accatatccg acgtggagat caaagagcat ggtggcgatg acttctcctt tacgctgaag 240  
gagggcccga ccggcacctg gacactcgac accaaggccc cgctcaagta ccnctttg 300  
atccgctttg ctgtcaagtc tgggtggc 328

<210> 41406

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D10

<400> 41406

gtcagaggaa ttcttcttaa tgctggcatc tgtcaactat gtagaggtga tcctattgcc 60  
atcaciaaatt cattggagcg ataccaggaa attgaccgga ctttctctgg gacacgtgaa 120  
tacaagcttt tagctgatct tgctgcatct atggatgaag gggatgttgc caaattcact 180



gatgcaatca aagaatttga tagcatgaca cgtctggatc cttggaaaac caccctgctg 240  
 ctcagggcga agaacgagct gaagaaaaag gaggacgatg aggacgacct tacataagta 300  
 ttgtagtaaa aagaaatggt acgatatggt ttggtttgtg cctccattgc attggaggca 360  
 tcgtgttcct taaaaacgag catgatgaaa ttaatcgctg gtctggttgt acagaacgtc 420  
 aatttgggtt cta 433

<210> 41407  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E9

<400> 41407

gatggttggg ttgcacctaa acttgcaaag cggatggaca agtttatgct atatctgata 60  
 actgctggaa agaaggcatt agaaaatggt ggactcaccg aagaactaag gaatgagttg 120  
 gacaaaacca ggtgtgggggt tcttattggt tctgcaatgg gtggcatgaa ggtttttaat 180  
 gatgcaattg aagcactgag ggtctcttac aagaaaatga acccattttg tgttcctttt 240  
 gcaactacga atatgggctc tgcgatcctt gcaatggatc tgggatggat gggaccaaac 300  
 tattctatct tcacagcttg tgctaccagt aacttctgta tccttaatgc agcaaaccac 360  
 atcagaagag gcgaagctga cgttatgctc tgcggtgggt ctgatgcacc 410

<210> 41408  
 <211> 253  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F1

<400> 41408

cggacgcgtg ggaacaccct gaatttgagg gtattacacc gtcgatcata gtactggacc 60  
 cgggcgcggg cgagttcatt cccgtggacc cgtctcggg ctcttctctc gtaaaccatcg 120  
 gcgacgtcag cacggcggtg agcaacggga ggctgcacaa cgtgaagcac cgggtgcggg 180  
 gcgtcgcacc cgtgccgtgc atcttcatct gcatgttctt gctcttacc aatgactaca 240  
 gcgtgagcgc acc 253

<210> 41409  
<211> 239  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B11

<400> 41409

cacaaaaagca aaaagcatca tcacaataat ggccagtgcg tgagtgtgca tcatggcgcc 60  
attcgcggcc ctcttcgtgg tagcccttgc tctagtggcg gccaccagcc cacaggtagc 120  
ggtggcgaaa aataaaagag cgggtgaacag cgtgctggac gacttggcga agaacatcca 180  
ggacaacatt tgctcgacgc tgttcgaggg caataaaggg acggacctgg tcgtgtgca 239

<210> 41410  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B3

<400> 41410

gggaaacatg ttgtttttgg tagagtgatg aaaggaatgg gggtagttcg ctctattgag 60  
catgtttctg tcggagaagc tgactgcccc actcttgaag ttaaaattgt tgattgtggg 120  
gagcttcctg aaggtgctga tgatggagtt gtaaaactttt tcaaagatgg tgatacgtac 180  
ccagattggc ccaatgatct tgaagagaag cctgctgagg ttcatggtg gatggatgct 240  
gtggagtctg ctaaagctta tgggaatgac aatttcaaga aacaggacta caaagcagct 300  
ctcagaaagt acaggaaagc tctgcgctac ttggatcttt gctgggagaa agaagagata 360  
gatgaagatt ag 372

<210> 41411  
<211> 227  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B4

<400> 41411

atcacgacaa gatggcgtgc acaaacaatg cgatgagagc cttgttcctc ctggtcctct 60

tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120  
 ctggtgggtc cttcgacatc accaagttgg ggcgcttcgg caatggcaag acagacagca 180  
 cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactggg 227

<210> 41412  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B5

<400> 41412

cccacgcgtc cgggtgaagga ccccatcccg agggacgtgt gggagaagat ctacacctgg 60  
 ctgcgcaagc ccggggcccg tgtcatgata atggaccctt acggcgccag gatcagctcc 120  
 atcccgagg atgcgacgcc gtttccgcac cggcagggcg tgctgttcaa catccagtac 180  
 gtcagctact ggttcggcga gggcgacggt gctgcgccga cgcagtggag caaggacatg 240  
 tacgcgttca tggagcctta cgtcagcaag aaccctagtc aggcgtacgc caactacatg 300  
 gacctggacc ttggcggt 318

<210> 41413  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B6

<400> 41413

ctccaaaatg ctttccaaga atttgggcag gtcaaaaacc tgcatttgaa tttggaccgt 60  
 cgtaccggat ttgtcaagg gtacgctttg attgaatatg agaagtttga agaagctcag 120  
 gctgcaataa aagaactgga tggagctgag ctttatgaac ataaaatgag tgttgatt 178

<210> 41414  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B7

<400> 41414

tgaacatgt cgtcttggta gaggatgaa aggtatggg gtagctcgct ctattgagcg 60  
 ggtttatgtc ggagaagctg gctgccccac tcttgaagtt aaaaatgttc attgtgggga 120  
 gctttctgaa ggtgctgatg atggactttg aaactttttc atagatgggtg atacgtaccc 180  
 agattggccc aatgaacttg gagagaagcc tgctgaggat tcatgggtga tggatgctga 240  
 agactctgct aaagcatatt ggaatga 267

<210> 41415  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B9

<400> 41415

aagacgaggt agaggagggg gcgagcgaca taggcagtgg aggggcgcg tgaggaggcc 60  
 ggcggcgcg gcgcgcttgc ggcgccggcg gcttggcgat gggggaggtg gccgcgctgc 120  
 gccagctcgt cggccaggtc caggagctct gggacctcta cggcgccaac ggcaacccccg 180  
 tccccaggtg gtatttacct gacttcgaac atggttcaat caaggatgat tattgtgggg 240  
 gaagctcagg atacaactcg gaattactga agatcatgga aactaaccaa tctccccctt 300  
 gcaagcgacc gcggagagat cgaaaccgtg aaaaggcacc ctctcaaac aaaattgaag 360  
 tcatggaaca agagatatgg agagatttcc ctgaagatct tttcgaaact gtcatagca 419

<210> 41416  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C1

<400> 41416

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 tcgctactcc ggcgagggag acgtcacacg ggtgcacgtc cgcgacatga ccttcacggg 120  
 caccatgaac ggcgttcgca tcaagacatg ggagaactcc ccttccaaga agcaacgccg 180  
 cgcacatggc cttcgagaac atgggtcatga gggacttgaa aaaccccata ataatcgatc 240  
 agaagtactg cccctactac aactgcgagc acaagtacgt gtccgggggtg actctcaatg 300

acattcactt caagaacatc aagggcacgg cgacgacgcc ggtggcggtg ttgctccggt 360  
gcggtgtgcc gtgcaagggg ctggtgctgc aagacgtgga ccctaggtgc ccgtgct 417

<210> 41417  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C10

<400> 41417

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tttaccattg taatgctatt catccaggct agacgtctaa aggtgggaga caagccactt 120  
tttacagttt caatatttat gcatgctgct cgcaataatg ttcttctttc agtacctgct 180  
cttctctatg ctatcaacaa ctatttgaag ttcataatgc agttatattt taatcctgct 240  
agcgtgaaaa tgctgagtaa tctcaaagtt ctggtaatcg cagtgccttct taaaatgata 300  
atgagga 307

<210> 41418  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C11

<400> 41418

gaaacatttc ccgacgggtg tttcccacgc cggaatggac cagccggctc cataagccca 60  
agattcgttt gcattcagta atgcctttgc ctaaatcaga cctgggggtca taactcttta 120  
gtagagaacc aagaagatgc atgcatctag ggcaaggctt ttcaaggagt acaaggaggt 180  
acagcgagag aatgtagctt acccttgttt tcaaataata tgtgatgatt ctaacatata 240  
taagtggact gctcttatca aagggccttt 270

<210> 41419  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-C12

<400> 41419

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cggcctcttc ccgcaggcgc tgggtaaggg taggggaggc aggggacacg gtggcgccgt 120  
caacccgcag gtcgccggca tctgctctcg caccctgttc ccggaggtgt gcacgtccac 180  
cgccggggcg cagcgtcca agtaccgggt catcgacaac ctggccgtgc tgaacatgca 240  
ggtggacgcg ttgcgaagc gcaccgcgca tgcgcgcaag cacgtcgca ggtcggccc 300  
caccatcccg ccgcagcaga cgcaggcgct cacgttctgc gacaccatgt acatgaacac 360  
gcatgacacc atcggcgcg tgcacgggc catcacgttc aaggacaccg gcaccgncaa 420  
gatcatgct 429

<210> 41420

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C2

<400> 41420

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agagagcacc ttcatggagg aagacgtggc caattacttc ggtttgtatg gttctgtgcg 120  
cgacgtgagg atcccatggc aggagaaacg gatgtttggc ttcttaagct tcaacattcc 180  
gaaaacgtta acaacattct tacaatacgc attccacata ttattggcga aatcaagggt 240  
cctggtgaaa cgttacatag ag 262

<210> 41421

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C6

<400> 41421

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catcgctgaa aagcagcgat tgagagagat agagctggag gagaaggcaa aggcaacaag 120  
ggagaagctc ttaaagggat ccgaggctgt gcgcgctcca gattctgcac ctgttgacac 180

gccacctcga gagtcagcag cagcgctgc agctgctgcg gctgctctg ctctgctcc 240  
tagtaaatat a 251

<210> 41422  
<211> 167  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C7

<400> 41422

cggacgcgtg ggcggacgcg tgggaaaaaa ttaaaaaaaa aaaaaagata aaaaaaaga 60  
gaaaaaaaaa aaaaaaaaaa aggagtagat aatagaattg gaaatgttgg taaaaagtaa 120  
caagggacat tgatcttggg catatattag gctgtcttgg gctattg 167

<210> 41423  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C8

<400> 41423

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agggcggaag aggatgagcg cgtccagggt cataaagtgc gtcacggtcg gggacggcgc 120  
cgtcggcaag acctgcatgc tcatctccta cacctccaac accttcccca ccgactatgt 180  
tccgacagtg tttgataact tcagtgccaa cggtgtggtt gatggtaaca ctgtcaacct 240  
cggcctctgg gacactgcag gtcaagagga ttacaacaga ctgagaccac tgagctatcg 300  
tggagctgat gttttc 316

<210> 41424  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C9

<400> 41424

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cttctcgggt gccctcatga aaaaacgcag tgtcaccacg aagggactag gttcagatga 120  
 ttcaagggtct gatgtcctag ttgtggagtc caacaaggag ctcaagctgg gggcaacaga 180  
 ggcggttata ctgtcagcgt tagagagttt ctttgacgtt gttttgaact atccaaagat 240  
 caatatgagg ttgtgtgacg tgatggagct cttgtcctgg aagcaacca agtgcccca 300  
 attgtacata tacagctccg tcgacagggt gatcccagcg aaatcagtgg aggcattcat 360  
 cga 363

<210> 41425  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D1

<400> 41425

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 gccaaagaag agacggatgc gctgccaag gcaccagctg ctgcagccac cgaggggcct 180  
 gctgcgggag cgcccatgac atggccggat ggcgggcctg agttcgtcaa gatggtcatc 240  
 aagaaccct 250

<210> 41426  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B10

<400> 41426

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 atgcgcgcgc aggatcccggt cgggtggtgc taccgcctcg tcctcagtct ggagcgccag 120  
 ctcgagatcg atactgccga gtcaccgcc gtgtccacc acttggcggt ctgccgcccag 180  
 gctaccacga caaccaccgt gatggcaccg caacagcaag gcggtggcat ggctgacctc 240  
 gacgtcacgt cctccaacca gccgcttctt cccaacgagc agcaagaagt cgttgacgca 300  
 ctctacgtga atcacgaagc tcacaccgcc atccttcaaa ccgacgaggt cgtccaccgc 360



cacggtggag gccacagccc caccgatgat catcacggtg agcagcaaca gcagcagctc 420  
 ttcgactact tttatta 437

<210> 41427  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-021-Q1-K1-H5

<400> 41427

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 catcgccgtg ctcaacgacg gcaccatcat gaccatctcc aaggaccggg tgaagccgtc 120  
 cccggtgccc gacgcctggc gcctccagga gatctttgcc accggcgctcg tcctcggcac 180  
 ctaccaagct ctcgccaccg tcctcttctt ctggggcgctc cgcgacaccg ccttcttcac 240  
 gaatacgttc ggggtgcacc acatcgggga cagcacggag gagctgatgg cggccgtgta 300  
 cctccaggtg agcatcatca gccaggcgt catcttcgtg acccgcgctc ggagctgggt 360  
 ctctgtggag cgccctggcc tgctgctggt ggccgtcttc ctggccgngc agctgggtggc 420  
 gacgctgata gccgtgtacg c 441

<210> 41428  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H9

<400> 41428

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 ctctccagtc tcttctggac gtacggccct gtggaggagt gcacgcccac ggattcataa 180  
 gactctgagc cctacactga cgtcttcttc gtcaagttct cacaggtcaa caactccagg 240  
 tttgcaaaga ggaagctcga cgagtctgtg tttctttgca aaccgctgca ggtgaactat 300  
 tccctcaat tttataacct 320

<210> 41429  
 <211> 253  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-022-Q1-K1-A1

<400> 41429

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 aaaaacacaa aaacacaatg cacatcaact gacagaagtg caataccctc tcatatgcag 120  
 agtttcggaa tactgggctg gagagatcag aggcgctgaa aaatgatctg gaatggttca 180  
 cgcaacaggg ccacacaatt ccaaaaccat cgggccctgg caccacatac gcttctctac 240  
 tggaagatct gtc 253

<210> 41430  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A10

<400> 41430

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 tgaatatgga catgtgcttc tcattcctcg tgttctggac cgctgcctc agaggattga 180  
 tccagagagc ttcttgcttg cactgcaaatt ggcagccgag ggaggtagcc cataacttcag 240  
 gcttggttac aatagcttgg gtgcgtttgc caccatcaat cacctccact ttcaggcgta 300  
 ctacttgta gtgcctttcc ctgttgagaa ggcagctacc cacaagatcc cactctctga 360  
 ggacacgaag aagaatgggg tgaccgtgtc caagctgata aattatcctg tgagaggcct 420  
 ggtatttg 428

<210> 41431  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A11

<400> 41431

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tatggggttt tctaccaaac cctattcgga acaagataat agatgtgcaa gatctcttcg 180

tggaggtgca agcattttgc atcgccttct cgcgaataag ggaggcagtg gggttgttca 240

ggctcctgaa atctctagaa tgaagagcgc tgcaccatca gttgggcgct ggattctcag 300

aacagaaatt cccaaggtgt acatccatgg ctctgccttt tgcttccaag ctgctgaccc 360

tgcataggtc tggactctgt agggcgtgga ttttgctggg atattggtta 410

<210> 41432

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A3

<400> 41432

gggagctggc accagcacca gcaccggcac cagcggctct tcccgtgccg gatcagtgca 60

acgccgggga cggcgaccgc gggaggaagg cggcgctcgc tgggtcccgc gtgtgcagcg 120

gggcgcggag acgggtggcc aagggcgccg gtggcccggc gagcaccaag ttccgcggcg 180

tgcggaggac gccgtggggc aagttcgccg cggaga 216

<210> 41433

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-A4

<400> 41433

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cggcgctcgc tcagatctct gcgtgcgggc tagcgatggc gtcgttctcg gaggtcccc 120

cagggaaacc gaaggcgggc gagaagatct tcaagaccaa gtgcgcgcag tgccacacag 180

tcgagaaggg cgccggccac aagcaaggtc caaacttgaa tggctctttt gggaggcagt 240

cggtaccac cacaggctac tcctattccg cgggaaacat aaacaaggct gtgatctgng 300  
aggagaacac tctgtatgac tacct 325

<210> 41434  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A5

<400> 41434

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acatcaacta acagaagtgc aataccctct catatgcaga gtttcggaat actgggctgg 120  
agagatcaga ggcgctgaaa aatgatctgg aatggttcag gcaacagggc cacacaattc 180  
caaaaccatc ggcccctggc accacatacg cttctctact ggaagatctg tctgaggagg 240  
acccccaggc ctttatctgc catttctata acatgtactt tgctcatact gctggaggcc 300  
gaatgattgg caaaaaggtt tccaagaaga ttctgaacaa caaag 345

<210> 41435  
<211> 346  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A6

<400> 41435

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tgatgcgctc gtgaggtga gcggaattac tgcagagggc caagggtga aggttgaatc 120  
ctcagcagtt ccttcagccc caactccaga tgttgctgaa gcacaggccc cagctgctga 180  
ggaggaggac gatgatgatg ttgacctttt tggtagaggag accgaagatg agaagaaggc 240  
tgctgaagag cgtgctgcag ctgccaaggc ttctggcaag aagaaagaat ctgggaagtc 300  
atcagtttta cttgatgtga agccatggga cgatgagact gacatg 346

<210> 41436  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A7

<400> 41436

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tgatgttggtg attcttgcca caggttataa gagtaatgtt ccttattggt tgaaggagaa 120  
tgaatTTTTT tcacagcaaa gtggatttcc aaacaaacca aatgaatgga aaggaaagga 180  
tggactctat gctgctgggt tctcaaggcg tgggtctactt ggtgtgtcta tggatgccac 240  
caaaattgcy gaggatattg cgcagtctta taataatata tataagctac aaagatcata 300  
agaacaaatg atatttaact atttatcaat aatttagcta tcaccatttg agagttttgt 360  
aaatatatgt actagtctat ttgcataaat tataagagat ggatatgcta gattacaaat 420  
actaggetag cttatctatc aacgcac 447

<210> 41437

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A8

<400> 41437

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atcagcgctcg gcagcctggg gcgctacaag gacgagaagg acgtggaaga cgtgcagggtg 120  
acgggggtgca cgatcgccgg caccacgaac ggctgcgca tcaagtcgta cgaggactcc 180  
aagtcgtcgc tcaaggccag caagttcctg tacgagggca tcaccatgga caatgtctcc 240  
taccatcatca tcatcgacca gaagtactgc cccaacaaca tctgcgtc 288

<210> 41438

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A9

<400> 41438

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acttggctaa catgcttggg tttggtgatc ttggcagtc accattatct gctgctgaag 120

aatattcact tcattcacga taccttgcta aagcgaattc tatgaatctg tcagatgttg 180  
 ctgaaatgaa aataatttac cgtggaggag ttgatagtga agggcgcca gttatgggtca 240  
 ttgttggtgc tcactttctt ctctgctgct tggatctgga acgatttggt ctatatgtag 300  
 taaaggaatt tgaatctctg attcagaagc cttacacaat tgtctatttc cactctgtgg 360  
 catcattaca accacagcct gatttaggat tcatgaaacg gttacaacag atactaagtc 420  
 ggaagcataa aaaaaatctt cataact 446

<210> 41439  
 <211> 143  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B1

<400> 41439  
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 caccagagaa cgtgtctgtg tatactgtgt aaaggtccta aaggaaagag aagatgcaca 120  
 tattcaaagc ctcgagcaa aaa 143

<210> 41440  
 <211> 235  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F9

<400> 41440  
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 gggcccaaca tgaccgatcc gccggggcgc tgggcttggc ccatcaacca ggccaggtca 120  
 ttctgggtgga acctgacagc cagcgtcgat cgccccaacc cgcattggctg ctaccactac 180  
 aggcacatca acatcacccg caccatcgag gtcattgtca tccgaggaca catcg 235

<210> 41441  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-021-Q1-K1-G1

<400> 41441

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ccctctctcc cgagtccega cgaccgggca acagccgccg tcgccgctca gcctccgctcg 120  
ggaccttcgc cgggtggcgag caccatcagg tgtacatgcg tacgcccattg cccttggtcg 180  
cgcccccccc tgcaagtggg ttctgtgtgg tctgtgtgga tttggctgcc ggaagattga 240  
ttgatgcggc cttcaggatc actgtagcct cgctgtgaga ttccaaggct gctcangtca 300  
tgttggggga ccagtgcac atacaggcgt tagactcggg tagctcatca agctctgccc 360  
ctgattcgac cctctccgga gagcttccag cangaactgt gtgattggga 410

<210> 41442

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G10

<400> 41442

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agcgggtcca ggtgcgaccc gccgtgaacg ggccgctcta ctacctcacc tgcctcatga 120  
acggtctggg gagcgactgt atcatcgggt ggcacatgct ggcggtgctc aagatggaca 180  
cccacgccat ccgcggcttc tactatgggc atgttcatcg ggggcgcact a 231

<210> 41443

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G2

<400> 41443

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catggttatg cttgcgaaag cactagagta tgcagatttt gacaactttg accgtgttcg 120  
tgtccccaaa atccgatatg ctgggatgct tcagtatgat ggtgagttga agcttccaag 180  
ccgttacctt gtttccccac cagagataga tagaacatct ggggagtact tggatgaagaa 240  
tggcatccgc acctttgctt gcagtgcagc agttaaatct ggccatgtca catttttctg 300

gaacggtaac cgttcgggat actttgatgc aactaaggag gagtatgtag aagtacctag 360  
 tgacagtggg attacattca atgttgcacc caatatgaag gcgcttgaaa ttgctgagaa 420  
 agccagggat gctctcctaa gtgga 445

<210> 41444  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-021-Q1-K1-G3  
 <400> 41444

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 gccgccggcg ccggagccaa gcggaggcat cgtatcccc gtggcggtgg tggcctcgca 120  
 tttctgcgcy ccctacgtgg tgcagctggc ggtgaaggag aagaaggtga gcctccggga 180  
 aggcgacttc accatcaccg acaccaacgg cgccgtcgtg gtcacggtca agggcgcctt 240  
 gatcagcatg cacaaccgcc gccgcctact cgacgccgtc ggcaaccccc tcctctgcct 300  
 gcgcgagaag gtaatcagca tgcacaacac gtgggaagcg tacagagggg acagcacgag 360  
 atcgagcgac ctgctcttca ccgtcaagaa atcctncatc atgcagccgt tcaagaccga 420  
 gatgctcatc tacctg 436

<210> 41445  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-021-Q1-K1-G5  
 <400> 41445

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 taaagcccg tggcaaagtc ctaatcagcg actactgtaa gaatcctgga aaaccatcag 120  
 aagaatttgc tgcgtacatt aagcagagag gctatgacct tcacgacgtg aaggcttatg 180  
 gacagatgct gaaggatgct ggttttcata atgtcatcgc ggaagatcgc actgagcagt 240  
 tcttgaatgt tctacagagg gagctaggtg aagttgaaaa gaacaaagac gctttcctgg 300



cagacttcac ccaggaggac tatgacgaca ttgtgaatgg ctggaacgcg aagctgaaac 360  
 ggagctctgc cggcgagcag aggtgngngt tgttcattgc caccaagtga tttggcctgg 420  
 cagcangagg gctcttcgga ataagaatgg at 452

<210> 41446

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G6

<400> 41446

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 agctggcggg gctgtccatg agcctcttct tcgctgcctt ggcgctcttc aagctggcgt 120  
 gcgaccgcgt gttctgcctc ttcgccggca agggcagggg ggaacccgac gcggaggagc 180  
 acacaaggag cagtagggcg tggatgctcg tgctcgccag cagcagcttc accaccctca 240  
 tcgtcttgct ctacaactga agctttctag agtttcgctt gctagcacgg agcaacgttc 300  
 ttttagccat gttcttgctc ccgcatagct cattaactcc cctctcaagt agatggggta 360  
 acgtatgtac tcaactattc agaataaaga tgaacacagg ttccttgctc attgtaaaac 420  
 aacctggaat aatcc 435

<210> 41447

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-021-Q1-K1-G7

<400> 41447

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 gaagctgatg atgttaaccc gtacatgact tcctttcgtg gtattgataa caaggtctat 120  
 tacatgttag atctcaacaa cagtgcacag ctgctgaact tctcgggttg cggaataca 180  
 ctaaactgca accatcctgt tgtcaaggag cttgtacttg acagtttaag acattggggt 240  
 aaggagtatc acatagatgg atttcgggtt gaccttgcca gtgttctttg tcgtggacca 300

gatggcagtc ctcttgatgc accttcactt attaaggaaa ttgccaaaga ctctgtattg 360  
tctagatgta agatcattgc tgaaccttgg gactgtggtg gcctttatct agtangggagg 420  
ttccctaatt gggacagggtg ggctgaat 448

<210> 41448

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G9

<400> 41448

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gaccttcgcc gtcattctat ccgtcctctt ctgtgcgcg getggcaccg tcgtcgacaa 180  
cgacctccc gactacgtca tccagggccg cgtctactgc gacacctgcc gcgccgggtt 240  
cgtgaccaat gtcaccgagt acatcgcggg cgccaaagtg aggtctggagt gcaagcac 298

<210> 41449

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H1

<400> 41449

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aactcacttt caggttcatt ctacatatct caagacactt ccaagtactc cctttactct 120  
tctcagaaaa caaaacaatc attttatcta ccaacatcat ctatctctct tttaaaacat 180  
atctttaatc tttattatct ttctcttcta atc 213

<210> 41450

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H10

<400> 41450

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ggccgcatct gctgacgcgg gctttctcag cccggctcctt attaataatg ctggtgcacc 120  
tattctttac tgggaatcaa taactttcat cagacccact gttgctctaa tatgttttga 180  
gacaatcggc ttattactaa atgattagtc acctccttct cccttcaagt catcttgcac 240  
ggatgactgt agcatatctt tatggcttgc tgataatcac agcgggtgttg aacataagca 300  
agcccgtgcc gtattttata cgcactgcat tgcaactgcac gatacat 347

<210> 41451

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H11

<400> 41451

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gcgctagtgg cggccaccgc cccacaggta gcggaggcaa agaagaaaag agcggcggag 180  
agcggcgaag cggcggatgc gaataagatc caggacgact tctgctcgac gctgtgcgag 240  
ggcaagaagg ggacggacct ggtcgtgtgc aaggggtcct gcgcgctctt ccaacagtcc 300  
aacctggtgc tgtacgggag gatccagtgc aagggaaggt gcaccgagca g 351

<210> 41452

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H12

<400> 41452

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gcggaaaataa tgaagagccg gggcatggca tcatcgcccg cgctcttggg gctagccctc 120  
gcgctagtgg cggccaccgc cccacaggta gcggaggcaa agaagaagag agcggcggag 180  
agcggcgaag cggcggacgc gaagaagatc caggacgact tctgctcgac gctgtgcgag 240  
ggcaagaagg ggacggacct ggtcgcgtgc aaagagtcct gcgcgctctt ccagcagtcc 300

aacctggtgc tgtacgggaa gatccagtgc

330

<210> 41453  
<211> 180  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H2

<400> 41453

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acactcccaa tgtacaccct ttatctttct cataaaaaaa aacaatgttg ttatctacca 120

acatcagcaa gctgtgttgt aaaacatatc tttaatcggtt attatctttc tctttcgatc 180

<210> 41454  
<211> 455  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-021-Q1-K1-H3

<400> 41454

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gagggtcgcc gagggcagat cccgcctcgc gcgcctcatc ctggtgcagg cgctgcacct 180

agtggccgga ggcttgcttc tattgctgtc gttgtccaag ggggcccggg tgaacaagtt 240

cgccgtgctg tccatggccg cgggattcct ggctatagtg gtgggggaat tagggcgaat 300

gcggaccatg gcagtgtgc ttcggcttta cacaagcttg tcatcaattg cggttgcatt 360

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ggccatcaca agctacgaaa tgcttgatgc ggttc 455

<210> 41455  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E6

<400> 41455

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atthttcttga gtgcatgtga tgatgatgcc gagcctacac tgatttggct gagaaacgag 180  
atggcttagc tgggtggagtc gtctgaattg cttgctggat agccagtatg ttatgttgtt 240  
caaatgaaaa attagctctc tcccttttgt ttgtttctaa tctaaatgca cacactctat 300  
tgtaatgtaa taagagacaa atgagtggcc aactttctgat tttgatgctt caaatttcat 360  
ccgcttcata gacctaatat gatggacact gatcttttta tatgcatgca acaaattaat 420  
gtatccatgt ggtgtaacca aacaat 446

<210> 41456  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E7

<400> 41456

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ttcaatgaat tctctgtct actcgctac cccgaattca cttgatagcc cgccagacgc 180  
atctcgatgc ttctgtctcc tggttcttag ggctgtgga tgagaccgtg tccctgccgt 240  
ccaaaaatca gcaggccctc atgctcatag cgttcatgga tccaggaaaa ggagacgccg 300  
gtgatacttc aaccaccaga gagcgtcgga tggggaccac catcgtacgg gtccgctggg 360  
accgctgcta gctactagg gcagcaacga attgacaggt atgattgcgc atggccatca 420  
ctgcgagacg taaccacatt aaaccttt 448

<210> 41457  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E8

<400> 41457

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 tccattagtg acaggaatat ctcaagtatct ctcacgaagt ctattcattc caccaccaac 180  
 tcattttcct tgtttgctg ttttttactt ctcttctttt gctgaacccc ctcaagtaggc 240  
 tctggtctct tctttggctc tttgccctga agaagatgtg caaggagggc gcatattggg 300  
 ggactgttgc tggcgtctac gtgggctgtg tgtatggcgt ggagaggggc cgtgggcgca 360  
 gtgactggaa gaacgcgatg gtcggaggcg ccttgtccgg cgcgctgggc tccgccgcca 420  
 gcagcaacca cggagacaag atcgtcaagg 450

<210> 41458  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E9

<400> 41458

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 cacgttcctg aagctcctgc aggacaccaa ggctcgccggc gaggcgaatc agtccggctc 180  
 ggcgacgcta ctggctgtcc ccgacaaact tgccaagcct ctggcgtcgc tgcccgccga 240  
 taagggtcgg ccggcggtgg agaaccacgt ccttctcagt tacttcgacc ccatcaagct 300  
 ggacgagatg aagacacgca ccgtcattct tcccacgctg ctcttcgtca ccgacaagaa 360  
 actc 364

<210> 41459  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F10

<400> 41459

gtcgtggccg tctcccatc cgtctcccct ttctcgctc cggtgcccaa agccaggcca 60  
 acagttttga ggtggtaatg gcgggccagg ctaaccaacc cactgtcctt cataagctag 120  
 gtggccagtt ccacctgagc tccagcttct ctgaagggtg acgggcccgt aacatctgcc 180

tttctttctc atcttatgaa aggagatttg ccacgaggaa ctacatgacc catagccttt 240  
 ggggcccttc aatgtctggt agcgggtggca ttaatgtttc agtcatgccg actccgcttt 300  
 ttgccaatgc tccatccgag aaaggtggca aaaacttcat gattgatttc 350

<210> 41460  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F11

<400> 41460

cacgacgcca agtccgcctc cgccgtcatc cgctacgccg gctccagcgg cgccccgccg 60  
 gcgccaaca tgaccgagcc accggccggc tgggcctggt ccatcaacca ggccagggtcg 120  
 ttccgctgga acctgacggc cagcgccggc cgccccaacc cgcagggtc ctaccactac 180  
 ggccagatca acatcacccg caccatcaag gtcattggtt cccgcgccca catcgacggc 240  
 aagctccgct acggcttcaa cggcatctcc cacagggaca ccgagacccc cctcaagctc 300  
 gccgagtact ttaacgtcac cgacgggggtg ttcagctaca accagatggg cgacgtgccc 360  
 ccc 363

<210> 41461  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F12

<400> 41461

atgggtggat gtgacaagca aggcttccca atgaagcaag gagttttgac ttctgggtcg 60  
 gtctgtcttc tgctccatag gggcactccc tgcttccgtg gttatggcag gcgtaatggt 120  
 gagcgagga ggaagtctgt ccgtggttgc atcgtgagcc aagacctatc tgttatcaac 180  
 ttggtgattg tgaagaaggg tgagaatgat ctgcctggtc tgactgacac tgagaagcca 240  
 aggatgaggg gtcccaagag ggctccaag atcagaaagc tgttcaacct taacaaggat 300  
 gatgatgtac gcaagtacgt gaacacatac cgcatgacat tcactaccaa gaacgggaag 360  
 aaggtcagca aggcacctaa gatccaacgg cttgtgacac cct 403

<210> 41462  
 <211> 460  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-021-Q1-K1-F2  
  
 <400> 41462

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 tacggtcgct gataagcagc cgcattccagg gatggagatg aagaagatcg cctgcgccgt 120  
 cctcatcgcc gcctcggcca ccgtggcgct ggccgcggag gcgccggctc cgtctccac 180  
 cagcggctcc tccgcggtcg caccgccat cgtcggggcc gccgtggcct cttcttcgc 240  
 gtactacatt cactgagccg ccggacgagg agccggagcc ggagggaaga gaccaaggtg 300  
 gggggagaga cttggctgcg ctgcgctgct ctgctgcttc cgcgcattcc cgatgcgtgg 360  
 gcgtgctctg attgggcacg gcggtggcag tggcacacct tcgtcttctt tttgtttggt 420  
 tntttttcct tcctctttct acttgattnt catttaacga 460

<210> 41463  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-021-Q1-K1-F3  
  
 <400> 41463

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 gcctactgcg gaaagtacaa ggatgagctc atcaagaatg ctgcctacat tggcaccct 120  
 ggcaagggta tccttgctgc tgatgagtc actggcacca ttggcaagcg cctttccagc 180  
 atcaatgtcg agaacgttga ggagaaccgc cgtgccctcc gtgagctcct attctgctgc 240  
 cctggtgctc tccagtacat cagcgggtgtg atcctcttcg aggagaccct gtaccagaag 300  
 accaaggatg gcaagccttt tgttgatgtc ctcaaggagg gaggcgtcct ccttggcatc 360  
 aaggttgaca agggcaccat tgacgttggt ggactgata aggagaccac cacccaaggc 420  
 catgacgacc ttggcaagcg ctgcgccaaag tacta 455



<210> 41464  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F4

<400> 41464

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 ctcaacgcca cccaatggc ccagagcacg aggatgggtg cgctggccct ggtgggcctc 120  
 ctggtggcgg cgacggcgtc ggtgcccacg gccaccgctg acggctgcta cgacgactgc 180  
 tacgagcggg gcgccaacgg caagaaggac gaccccgctt gcaccaagat gtgcaaccag 240  
 gcgtgcccga gcaccgacaa gggcgccgct gtcggcgcg cggcttgatc gacccgggct 300  
 tcacggcgcg gcgggctcag ctogatatca gcatcatata caatcgctgc tccgtcgctc 360  
 acgtcagccc atgcatgac tctcgacccg gccattgaa tcttctcctt ctactatagt 420  
 atatctttgt tgcaggctct cgttctcata catcgatcca ctc 463

<210> 41465  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F5

<400> 41465

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 cgccgtggcc tcaccggctg ctctggccgc cttcgatgtg atagagatgc tggccgacaa 120  
 gccacgtac tccacgttcc tgaagctcct gcaggacacc aaggctcgcg gcgaggcgaa 180  
 tcagctccgg tcggcgacgc tactggctgt ccccgacaaa cttgccaage ctctggcgtc 240  
 gctgcccgcc gataaggtgc ggccggcggt ggagaaccac gtccttctca gttacttcga 300  
 ccccatcaag ctggacgaga tgaagacacg caccgtcatc cttcccacgc tgctctccgt 360  
 caccgacaag aaactcggcg tcctcaacta caccatggcc gacgacgggc agatgtactt 420  
 cggcgtccc ggcgccccct 440

<210> 41466

<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D11

<400> 41466

cgcgtgtcta ggtttcctct ctcaccatag cgcccgctct gtcgccttc gttcacctgt 60  
ccttcctctc ctccctgcct gccagggaga ggggaagtca gaggcacgga gtggcgcaga 120  
gcagacgccc gtgaaccatt gtagctgtcc ctgtcgtcgt catcgtcgtc gtcaacgaat 180  
ccgcacaagg aaaagatgga gaagaagccg accatcctca tgaacaggta cgagctcggg 240  
cgcacgctcg ggcagggcac cttcgccaag ggggtaccg gtcgggacct cgcgttcggc 300  
gagagcgtgg ccatcaaggt catcgacaag gagaaagtga tgcgcgtcgg catgatcgac 360  
cagatcaagc gcgagat 377

<210> 41467  
<211> 226  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D12

<400> 41467

cccacgcgtc cgaccagctt gtgaagtga taagaagctc taaatcaaga aggatattta 60  
ctagaccaga agcatggttt ggggtgggata tctctacatg attttgttgc tgttctgact 120  
ttgtttgtgc tcccgaactt gagtttgcaa tcaaattatg ataatggtat tgactctcat 180  
atgaaagcat ggcatatgga atttaatact gtgtatgact gtggac 226

<210> 41468  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D2

<400> 41468

gacaaaacat ggctgtgaat gtgagaacca tgtggtcgtc gatgcgggca caggttgcca 60  
tggttgtggc gttggtgttc ttggtgagcg gcgcatggtg cggctctccc aaagtcctcc 120

caggcaagaa catcacggcc acctatggca aggactggct ggacgctaaa gcgacatggc 180  
 atggcaagcc gacaggtgcc ggtcccgacg ataacgggtg ctgctgcggg tacaaggacg 240  
 tgaacaagcc ccccttcaat agcatgggcg catgcggcaa catccccatc ttcaaggatg 300  
 gtctgggttg tgggtcctgc ttcgagatca agtgcgataa gcctgtggag tgctccggca 360  
 agcccgtggt ggtgcacatc acggacatga actatgagcc tatcgcgcg taccacttcg 420  
 atttagcatg cacggcgttc 440

<210> 41469

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D3

<400> 41469

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 ccctcacaag ccgccgccgc cgtgaggact cggcgcaatg gcgtcccgcg tcgcctcggg 120  
 ccttctccgt cgtcgcgcgc tcgccactct agggctacta aggagtcata cacatgtcag 180  
 aaactacagc agtcaacttt cagctttgat tccagctact tctcaatgct caaatctgac 240  
 aagaagacgc tattacttac ctaatccatc tctgtaccaa gtttggagta ggtcatttgc 300  
 ctgagacagc ggagacaagt tcgaggctgt tgtgcccttc atgggtgaat ctgtaactga 360  
 tggaactctt gctaacttct taaagaagcc tggagacaga gtcgaggccg atgaacccat 420  
 agcgcagatt gaaactgata aggtcactat agatgtcgc 459

<210> 41470

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D5

<400> 41470

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 gcggtggccg ccgatgtcgc caacgccggc cacgccaagc ccctaacgcc tggcgggcgc 120  
 gtggtacacg acaaccacgg caagttcacg gccgggcccgt ggaaaccgc ccacgcaacc 180

ttctacggcg ggcgtgacgg gtccggcacc acggcgggcg cgtgcgggta caaggacacg 240  
 cgcacgcagg ggtacggcgt gcagacgggtg gccgtgagca ctgtgctgtt cggtgacggc 300  
 gcggcctgcg gagggtgcta cgaggtgcgg tgcgtggaca gccctagcgg gtgcaagccc 360  
 gacgcggcag cgctgggtgt gacggtgacc gacctgtgcc ctgccaagga ccagtgggtgc 420  
 aagccaccgc gggagcactt cgacctcagc atg 453

<210> 41471  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D9

<400> 41471

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 tcgcgctagt ggcgccacc gcccacagg tagcggaggc aaagaagaag agagcggcgg 180  
 atagcggcga ggcgcgag gcgaaaaaga tccaggacga cttctgctcg acgctgtgcg 240  
 agggcaagaa ggggacggac ctggctgtgt gcaaggagtc ctgcgctctc tcccagcagt 300  
 ccaacctggt gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 360  
 tcacggcgcc ggccatgaag gtctgccagg aggagtgcga caaggcgt 408

<210> 41472  
 <211> 206  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E10

<400> 41472

gcaaatacc ggcaaggcta ccaagatcct atgtcattcc tgtgttactc tccgtggctg 60  
 ggggggcttt ttttgccgc ggggtgtgag atagaaaagc taaacgacat gccacgtac 120  
 tccaccttc ctaagctgct ccatgacacc aacgacttgg gcgcctccaa tcatgtccag 180  
 acagacacgc ctctggctgt tcccga 206

<210> 41473

<211> 349  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-021-Q1-K1-E12  
 <400> 41473

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 gattccacgc gcgatggcgc ccaccaggat ccgcgtggcc ttgctgagct tggcgctggg 120  
 ggggctgctc atctgccacc tcgccaccac cgccttcgcc ggcaagaaca gaatccgcat 180  
 cctcgacagc gtcgacgact cggccgggga caacaacagc tccgacgcct cggccgggga 240  
 caacagcacc gactccgagt cggaaggccg cgtcgtctat tccgacatga agctggctga 300  
 tgagacggga tctgcgccgg ctccggcacc ggcgccgggg ccgacgacc 349

<210> 41474  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E3  
 <400> 41474

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 ctgctgcgct tcagttgccg ccggcgccat gagggtgggtg gtgacgggcg cgacggggta 120  
 cctgggaggc cgctgtgcg cggcgctggc cggcgcgggc cagccgtgc gcgcgctcgt 180  
 ccgccactcc agcgacgtct ccggcctgcc ccgcgacatc gagatgacct acggcgacgt 240  
 caccgacgcc gaggccctcg ccgtggcctt cgacggctgc gacgtcgtgt tccacgtcgc 300  
 cgcggccggt gagccgtggt tgcccgacct ctccgttttc ttcaaagtta atgtacgtgg 360  
 acttgagaat gtgttgaagg ctgtcaagag aacaccaact gtgaagaaga taatctacac 420  
 atcttctttc tttgcaattg gtccaactga tggttatg 458

<210> 41475  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E4

<400> 41475

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atattcctgc caagataaag gtaatggagt cgtcacgcag gttccagccg gccgtcatcc 120

tgcttctcct gctcattgtg tccaccgata tggcacaggc aagggaatgc gagaagtaca 180

gtgagcgatt tgttggggca tgcattgatc cagacaactg cgccaatgtg tgccgcggtg 240

agggcttctt ggccggcagg tgcagcacct tccgccgccg ctgcatctgc actaggcagt 300

gctaaacaag atcgtctgat cgctcgccat gcatcgacaa cctattctta ataacgttca 360

ttatctcgtt cttatttatg acgaatgtca tgtatgttct ggtgactgtc atgtatattc 420

tgatgactgt catgtatctt gttcatgtat gtc 454

<210> 41476

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B6

<400> 41476

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caggtcggcc ggtgcctttg agtttgaat aatgacggcg acgacgacga cggccgtcgg 120

cggcggcaag gtgcagccgc gcgggctgcc cgcggcgctg tccctgctgc tgctcctggt 180

gttggcagcg gggctgggcg gtggcgccga ggcgcatcag acgtgcgcgg ggcagctgcg 240

cgggctggcc ccctgcttgc gctacagcgt gccgtccttg ccggggcagg ttccgtcggc 300

gcccggggccc gaggctgct cgcgctggg gggcgtgtcc agggactgcg cctgctgaac 360

gttcagcatc atcaacagcc tgccggtcaa gtgc 394

<210> 41477

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B7

<400> 41477

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ccatatgtgg gtctcaactt ggctgtatat ggtccctca aagactggct actccagaca 120  
aattcatttg gccttgcaaa tgacaacgag ctgcacgtag ttacaaggct tgggtgtgga 180  
gctgtggcgg gaaccattgg ccagactgtt gcataccgc ttgatgtcat caggagaaga 240  
atgcacatgg ttggttggag ccagtctgac tctattgtta ctgggcaaag caaagaagca 300  
ctccagtaca atggcatgat cgatgcattc aggaagactg ttcgtcatga aggagtgggt 360  
gctctgtaca aggggtcttgt gccgaactca gtcaagggtg tgccctcaat tgccattgca 420  
tttgtgactt acgaggttgt gaaagatggt c 451

<210> 41478  
<211> 70  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B9

<400> 41478

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acgcggaggg 70

<210> 41479  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C1

<400> 41479

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aggggtggccc tgcagagtga cgatgtcgag ctcgtcgccc tgaacgaccc cttcatcagc 180  
accgactaca tgacctacat gttcaagtac gacactgtgc acggacagtg gaagcaccat 240  
gaagtcaagg tgaaggactc caaaaccctt ctctttggtg agaaggaggt tgctgggttt 300  
ggctgcagga accctgaaga gatcccgtgg gggttcggtt gtgctgaaat atgtgttgag 360  
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<210> 41480

<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C11

<400> 41480

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cgctacggc gctccgtctc ctgatgcccc atcttatggc gccagcgtac catcaccgac 180  
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ggtcactcct atccatgggt cgaattaccg accgaaaagt ctggttcctc ggccaatttc 300  
tcgttcccg tcagctaggg gaagcatttc tcggcccggt atcacatttt aaaaatatga 360  
aagtcaattt tttttgttca aaacgaaact ttggaacagt gaatcgaaaa agggaagcct 420  
gttgcttact atg 433

<210> 41481  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C12

<400> 41481

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gtggacgagc acctgatgtg cgagatcgag ggccaccacc tcacgtcggc ggccatcgtc 180  
ggccacgacg gcgccacctg ggctcagagc accgcgttcc ccgagttcaa gcccgaggag 240  
atggctgccca tcatgaagga tttcgacgag ccggggcacc tcgccccgac cggcctgac 300  
ctggg 305

<210> 41482  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C3



<400> 41482

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gtgagactga cgatttgcac gaccatatta ttatattagg ctttggacgt gttggggcaga 180  
tcgttgcgca actcctgtca gagcgggttaa ttctttttgt tgcccttgat gttagaagtg 240  
atcgggttgc agttgggctg gcacttgacc ttccgggtata ttttggggat gctggaagca 300  
gagagggtact gcacaaagtt ggagctgaaa gagcttgtgc tgctgcaatt actttggata 360  
cccctggtgc aaacta 376

<210> 41483

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C5

<400> 41483

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tgacttatga gtagaagatg acaaatatgc tctttcccta tgatggaaga gtatattctg 120  
taacagacaa gcctggaaac cccactcagg tgaaatgtgc cagagtaaata tgaaagggga 180  
tcatttatga tgtgttctga tgcaatccta atgtggtgaa tgggggaaaac ctcttctgtg 240  
gctcttcaac tgggggtctta actctcatct cgtgctgact tcttgacctt ccagtttaac 300  
atggtgctgg gctgcctcta cgtcaacctg gttggtccag gctgtgcagt ctccaaccat 360  
ggttgtctcc aaaggatgtg cagctgacgt gatggtgctt atcaccacac cctcagagct 420  
catcaccac 429

<210> 41484

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C6

<400> 41484

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tgccgctgcc gctgtggggg cggttgccgc gctggggcgc ggcaccccg aatcggtcac 120  
 cgtggcatgc cccgaccacc tggatgacgc ggacctacc gtcgcgaaga gcctcggtgc 180  
 cgtcacgacc tccgctgccg ccgtcaecgc cgcacatcgc cgtcgctccc gtgcgccgct 240  
 cggggagcgc gtccacatct gctcccgtg cgagttcccc atcgccatct acggccgtct 300  
 catcccttgt gaacatgcct tttgtttaac ctgtgcaaga agtgattcca gctgctatct 360  
 ttgtgatgag cgcattcaga agatacaaag tgtgaaaatg atggagggga ttttcatctg 420  
 tgctg 425

<210> 41485  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-021-Q1-K1-C8

<400> 41485

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 gcaccaatac cattcccgcg acaacaacca tcgggtggaa ccgacaccta agcctcgtag 180  
 tgtcgtgacc cgacgatgac caccctgaac ctacccgact acccgaatca atgaccgact 240  
 ccaactgcga cacactaccg tgcacgcctt acgtgacaca acgaccacgc gagtaccatc 300  
 gtgtgtcgcc aaatgagact catggactgc aacgcactat cggctcccat acagctcgga 360  
 cctcaccata ggccatcgtc acacgacgca accgtgcac tacacgatcg aactaaaaga 420  
 cagccacgat gaggacatat actcactagt gc 452

<210> 41486  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-021-Q1-K1-C9

<400> 41486

gtcaattgag caagcatcga cgagaatagg gaagaagtac atgaatcacc gcgggtccat 60

gcggtggcat ggttgggagc tctgcgctgg gtggattgcg cagtgcggac acgaggatct 120  
gaggaatcat cctggtacct ggaatctcaa gtcccaggag aagaacaggt ggttcaagag 180  
gatccacaca gtgaggagtt cgatttgatc taggtggcgt ctcccagttg actttatgac 240  
gccaaaggatg gacttttagtt tgatctatat ttatatTTTA ttttggaaga ctaccactat 300  
gtaataagta ctctgatgat attgtgacat ttatctctca naaaaaaaaag atacaataac 360

<210> 41487  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B5

<400> 41487

ctgggagtcc accgtcagga acgtcaagtt cgtgtcggac aagacgggga agccggtgtg 60  
cattatcacc cccaccgagg ccgcgcacat tcaggccacc gtggcgtgcg ggcgcaagca 120  
cgggctgctg gtccgcgtgc ggagcggcgg gcacgactac gagggcctgt cgtaccggtc 180  
cgccaagccg gagacgttcg ccgtggtgga cctgtccatg atgcggcagg tgcgcacgca 240  
cggcaaggcc gccacggcgt ggggtggactc cggcgcgag ctcggcgagc tctactacgc 300  
cgtggcgaag atgaccccc aacctcgggtt cccggcgggc gtgtgcgcca cgatcggcgt 360  
cggggggccac ttcagcgggg gcggcttcgg catgctgctg cgcaagtacg gcaccgtctg 420  
tgacaacgtc atcgacgcca aggtggtgga c 451

<210> 41488  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A11

<400> 41488

cggacgcgtg ggggtgctcaa ggcgggccatg gccatcaatg ccaactgcct catggagatg 60  
agcatcccg acacgtatat agacacgctc cctaagaacg ggagagccag cctcggggac 120  
gcgctgtacc gaatcatcac agatgtggag ttcgacccgg acgacttcct gtcgacgggtg 180  
gacctgacgt ctgagcacia gatcctggac ctcaaggacc ggatcgaggc atcggtcatc 240

atctggaaca ggaaggtgca caacaaggac ggcaagtcct cttggggctc cgccgtcagc 300  
caggagaaga gggagcagtt cgaggagcgg gcgcagacac tgctgctcat catcaagcac 360  
aggttccccg gaatccccca gtccacgctc gacatcgcaa agatccaaga gaacagggac 420  
gtcggggttg cgct 434

<210> 41489  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A12

<400> 41489

cgcctaagca gctatcaacc aaccctagaa agctagacac cgtacccatg gctcgcgcta 60  
gcgtcgtctt tgtcattgcc gctctcctct tcgtcgccat ggctcgtagca ccgatggccg 120  
aggcaaagtc cgccgatgcc cctgtggctg acgcgccagc cgatggacct agcggggccg 180  
ctgctgcacc tggccccag ggtgtcgaag gcctgtcagg caatgaggat gacaatgatg 240  
acttcaccaa ttgagggcac acacgtcggc ccggttaaatt ttggaacaag acatggaaga 300  
aaaatgagag caatgtcttt aaaaccatga taatgtgtgg tcatccactc atccatggat 360  
acatccttgc tctccctctt tttctttctg gttgatttt 399

<210> 41490  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A2

<400> 41490

cgacgagtga gcgcgatgga ggcggcgctg cgcgggatca gggccaagct gacggagcag 60  
cgggagaagg tgatcagcgg tctgctgctg ggctcggcgg tggcgctggg gtggaagtgc 120  
tcggagcagc agcgcgagat ccagagcctg ttggccgaga agagctctct ccgagccacc 180  
aacgcctcta tgtccgccgc catgtgggcc tggcgggagg agctcttcgc cctcgccgcc 240  
gcgcctcct cccccatttc cgcgtcccg ctccgccaca tctacggcga ggaggagccc 300  
gcgccgctcg cgcccgccc cgcccgctca ggagcaaatg atgggaagga agaggaaccg 360

atctccatag cctgaactct ttccgcactt ttttccagtc gagcgtgtgc cgtccgtgta 420  
catcatggcc ggctccctga aggctaggag gatgctttg 459

<210> 41491  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A3

<400> 41491

gcaagggctg cggctcatgc tacgaggtga gatgcaagga aaaacctgag tgctcggggcg 60  
gtccagtcac ggtgtacatg gctgacatga actacgagcc tatcgtctcc taccacttcg 120  
acttgagcgg caaggccttc ggctccctgg caaagcccgg gctcaacgac aagattcgcc 180  
actgcggcat catggacgtc gagttcagaa ggggtcgcgat caagtacccc gccgggcaga 240  
agatcgtgtt ccacatcgag aagggtgca accccaacta cctggccgtg ctggtgaagt 300  
atgtggcgga cgacggcgac atcgtgctga tggaaatcca ggacaagttg tcggctgagt 360  
ggaagcccat gaagctctct tggggcgcca tctggaggat ggacactgcc aaggcgctc 419

<210> 41492  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-021-Q1-K1-A4

<400> 41492

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gtccagtcac ggtgtacatc agtgacatga actacgagcc tatcgtctcc taccacttcg 120  
acttgagcgg caaggccttc ggctccctgg caaagcccgg gctcaacgac aagattcgcc 180  
actgcggcat catggacgtc gagttcagaa ggggtcgcgat caagtacccc gccgggcaga 240  
agatcgtgtt ccacatcgag aagggtgca accccaacta cctggccgtg ctggtgaagt 300  
atgtggcgga cgacggcgac atcgtgctga tggaaatcca ggacaagttg tcggctgagt 360  
ggaagcccat gaagctctct tggngcgcca tctggaggat ggacact 407

<210> 41493  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A6

<400> 41493

cggacgcgtg ggcccatcgc gtgccctcgc cgcagccatc ttccatgggg gaccagctga 60  
cggacgagcg gatcgcgagg gtcaaggagg ccttcagcct cttcgataag gatggcgacg 120  
gctgcatcac taccaaggag cttggaactg tgatgcgctc cttggccag aacccactg 180  
aagcagagct gcaggacatg atcaacgagg ttgatgctga tggcaatggg accattgact 240  
tcccagagtt cctgaacctg atggcaagga agatgaagga caccgactcc gacgaggagc 300  
ttaaggaggc ctttcgcgtc ttcgacaagg accagaatgg cttcatctcg gctgctgacg 360  
tccgccatgt catgaccaac ctggcgaga agctgactga cgaggaggtc gacgagatga 420  
tccgtgaggc cgatgttga 439

<210> 41494  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A8

<400> 41494

cccgcgccag ccctaggtcc cggcgctctg gcgtccagcc ggcgcgga gccggtgcgg 60  
ccagcccagc gtggcgccct gacgcggctc gccagcatgg atgcctcacc gacgcgtccc 120  
cgcacgcgcc cgatcattgc gtggaggagt tgcacagcct cgccatcggc acgccgatca 180  
tgccccacca tgcacggccg tcgtcatcag gaggagagac gcggtgagca tgcgcatcac 240  
cttcgtcgtg cgtccaagcc tcgccatcat cgagctcgtc gacgccttcg cctctcgcgc 300  
atcgaggagg gagccacgcc acgttcacct tatggtagtt tgtcgaggag gactgcgacg 360  
catttcgag cttcgaggaa tcgaagatca aacttcggcg accaaatgac ctagtcttc 420  
gagttccacg agattgaaga ccctaagc 448

<210> 41495  
<211> 407

<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A9

<400> 41495

cacctcttgg ggatgtagcg gcacagggtta atgtgcttcc agccactgat gacctagatg 60  
gacaacagcc tacagaagag atcgatactg atcaggcacc tgagccaatg gtagagggtg 120  
aggcaacaag ggaagaggat gggggtgata aagatgactc tggagatgca tcaacggaca 180  
tcaaaggcca ggatgctgat gctaataattg acgcaaatgc aattccttta gaagaagagc 240  
atgtagtggc aaagtcagag gcaataattg aatcatttga tgatgaccgg aaaacagaag 300  
attcgaagga agatgctcag cgtactactg caactgatgt tgatgatgac atggaggagg 360  
gagagtggc aaaagaacct gaagacaaga gtgacgttga tatgtca 407

<210> 41496  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B11

<400> 41496

gctggttcgt ggatggcggt gccacaacct ctctgctgt cgctgctggt cgccgtgcta 60  
gcggtggcgg ccgatgtcgc caacgccggc cagccaagc ccctaacgcc tggcgggcgc 120  
gtggtacacg acaaccacgg caagttcacg gccggggcgt ggaaaccgc ccacgcaacc 180  
ttctacggcg ggcgtgacgg gtccggcacc acggcgggcg cgtgcgggta caaggacacg 240  
cgcacgcagg ggtacggcgt gcagacggtg gccgtgagca ctgtgctgtt cggtgacggc 300  
gcggcctgcg gaggttgcta cgaggtgcgg tgcgtggaca gccctagcgg gtgcaagccc 360  
gacgcggcag cgctggtggt gacggtgacc gacctgtgcc cgccaagga ccagtgggtgc 420  
aagcca 426

<210> 41497  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B2

<400> 41497

tttttcctta gctatgcaga ggaaaaatga tgctgttcgt cccagtttaa acaaaggac 60

ggtgggtttat gatccacatt cgacacatca gatgaaaaaa tgatttggtc tgggaacaaa 120

ggccacaaa gattttttat cggctacaat aaatacaaat gttgagacaa gctcaatctt 180

cctcctcacg aatcagcgcg aaggagaatg gggcaaactt gtagccatca ccttcataga 240

acttggtctg gaactccacc cagtgaagcc tcagcgcgtg aaggaatgca ctcagggtct 300

ccataacaag caagacacca atcgtggcaa agatgaagat gacgacacca ataataagga 360

tgaaaacatt gttaaaccce tatgccgtca ttagtacttt ctgtagaat acagtggaca 420

actcatagtg tgcaagactc agagcccaaa ga 452

<210> 41498

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-021-Q1-K1-B3

<400> 41498

cgacaagacg agacaagaga atgcctgtga gcaggatcgc cgtgggacgt ccgggcgagc 60

tgtccccccc ggacaccgtc aaggccgccg tggccgagtt catctccatg ctcattctcg 120

tcttcgccgg ctcaggatcg ggcattgcct tcagtaagct cacggacggt ggccgcccca 180

ctcctgccgg cctcatcgcc gcgtctctgg cgcacgcctt agccctcttc gtggccgtct 240

ccgtgggtgc caacatctcc ggcggccacg tgaaccctgc cgtgaccttc ggtgcctttg 300

tgggcggcaa catcagctc ctcaaggccc tgggtctactg ggtggcccag ctctgggct 360

ccgtcgtcgc ctgccttctn ctcaagatcg ccacgggcgg cgcggccatt ggcgccttct 420

cgctgtcggc gggcgtc 437

<210> 41499

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B4



<400> 41499

cccacgcgtc cgggtggctg ttgtctgctc ctgggtcttca gaagatattg ttaaaatag 60  
atgggttcata ggatatctag tgtatagtct tcttgacga aagaagataa tgttttgctg 120  
tttcagcaaa catctgaagt atgagtttta ttattaagag gtcttttctt taacttatgg 180  
cgagtttagc atcggtcagt tatcaaacag ttaaagcgtt ttctgaaatc ttgtttgaat 240  
atccgcagtc ctttttttgg ttggcatgc agaattattc tgaaacgttt agtaccocgt 300  
tgttcgtaaa ataaa 315

<210> 41500

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A10

<400> 41500

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gttttatatt cattgtgatg gtgccctttt tggattgatg ataccatttg ttaagaaggc 120  
acctcaagtg acatttaaaa agcctattgg gagtgtcagc gtctctgggc acaagtttgt 180  
cggatgcccc atgccatgtg gtgtccagat aacaaggttg gagcatataa atgccctttc 240  
tagcaatgtg gagtatctgg cgtcaaggga tgcaacaatc atgggaagca agaatggcca 300  
tgccccta 308

<210> 41501

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-020-Q1-K1-G3

<400> 41501

ggggatgttc cagagccaat catgctcaag gaaggtaag agttcaactt cacgattaaa 60  
agaggggtga gactgaaga cactgtcagc gtgaactatg atgacttcac aaatgatgtt 120  
gaagctggcg acatactatt agtggatgga ggaatgatgt cgcttgctgt gaagtctaaa 180  
acagccgata cagtcaagtg taaagtagtt gatggtgggg aattgaaatc acggcgccac 240

ctaaatgtcc gtggaaagag tgctactttg ccatctatca ctgagaagga ttgggaagac 300  
 ataaaatttg gtgtcgaaaa cggcggtgat ttctatgcag tttcctttgt gaaggatgcc 360  
 aaagttatcc atgaattaaa agactacctt anaagtgcta atgccgatat acatgtcatt 420  
 ccaaaaattg aaagtgcaga ttcaatacca aacctgcagt 460

<210> 41502  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G9

<400> 41502

atcaaaatca ctttgcgtgc agcatcgatt gggtcggaaa tcgagggttt ggtaagcgag 60  
 atcggcgccg gtgacagctg acagggacga gatggacgcc ggcggaggcg gcgtcttggt 120  
 cgccgttctc tgcattgtgc tggctcttcg catcttcccc ctctctctct ggcgccgccg 180  
 ctccgatgcc gccaccgccg ataaccaccg cgttcgcccc cagccccctcc aggaggatca 240  
 tgtgtgcac ggtcgcgcgg cggcgcgacg gatgcgtcgg aggcctgggg ctgccggagc 300  
 aagctcctct actggtcaa ctaaccgcaa tgctgtaaag gacgacgcgg agagtgcga 360  
 tgaagaggtc cccgaaagtc gcaacgtccc caaatccttc aaaaa 405

<210> 41503  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H1

<400> 41503

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 ttgaggaaat ccatggcctc catggcaaag gtgtttctgt tgagaatatt tcttctcagc 120  
 tttcaccttg ggcattctga ctctttgagt ttttgcccc ttttatcagg aagcagctac 180  
 tactacatcc tgaatctgat gattcagctc aactttccca gattgagact gaaaagctgc 240  
 tagcccagtt agttgagact gagatgaaca gacgtttgaa ggagggcact taaaaggaa 300  
 agaagtttaa tgcaatctgt cacttctttg gctaccaagc taggggagca ctgccttcaa 360

agtttgattg cgattatgcc tacgttttgg ggcattgtgt ctaccacatc at 412

<210> 41504  
<211> 466  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-020-Q1-K1-H10

<400> 41504

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cttacaacaa aaaacttgaa ctgnaagtgt aacattttta agggaatctg gacgtataaa 120  
accatattgg aaaggaagat gcaaaatcga aggaaatgct cgataagttg catgaagcac 180  
tgaaagagaa agatgaagaa atggatcata ttgattctat aaaccagacc cttattatta 240  
agcaacgaag aaccaatgat gagctggaag aagccaagaa agaactgact actgacctac 300  
ttaatatgtc atcagctcga tccattgttg gtgtcaaaaa aatgggtgag cttgacaaga 360  
aagctttcat tgtctcttgc aaagagaaaa catcagacga gttgtcattg tcaattctgt 420  
gctcgaaatg ggaagatgag atcatgcaac cagaatggca tctttt 466

<210> 41505  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H11

<400> 41505

cgcccgccga ccgaaccgcg gatttcaccc ctgccttttc ttctccccgt gtccaggccc 60  
tggtgccccg gcgttccccg gcggcaactg gccgcccgcg ccgcactacg ccaggtgccc 120  
aattcctcgt cgggtcctcc gccggcgacg agcaccacc agaaaactgg agtggactct 180  
acatgtcaag acagtatggc gccaggaagc aaggcggaga ggaaagcagc actagacgct 240  
ggcgcattga tgttcaatgt cggcacatcc gttggtatca tcatggtcaa caaagcotta 300  
atggcaacgc attggtttag ttctgctaca acgttgaccg gacttcattt cgcgatgacg 360  
accttgatga cattagtaat gaaatggctg gatat 395

<210> 41506  
<211> 364  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H12

<400> 41506

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tttgacagcc tgtccacaca ctaaggacct ctggttttca tacacaacgc tgcccgctctc 120  
tttttcattc taaccgtgct ataatcctta tgcacaccta acacgacaac aaccaacaac 180  
gaagaaactg cagcagactc tacatgcgct tatagaatca acccaggaac cttcgacatc 240  
tgcaaactcg gatcgaacac tgacgcttag acgtactata caaagacatt ccatgacacc 300  
ttgacgttaa acaacgaatc gatcgaacc cccactgtta ttatccctac agccgactac 360  
ctac 364

<210> 41507  
<211> 180  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H5

<400> 41507

tttctccttc actgtctcac attttacctc tttgtatcaa cttttcagag gtagatatat 60  
ttccctttac ctcaaagatc atcacttata gtatcttttag gaacgccttc ttaaagatct 120  
tatcaataaa cactcatatt ttatcatcta cccaatctct ctctttatcc ataataccac 180

<210> 41508  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H6

<400> 41508

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gccgcctcca tccgagcgaa caaaccatcc gaccccgctc ccaatgcaat ccgtcttcga 120

cgtaccacca ccaccgcatg agcgagatgg agatgaagag gatcctcttc gccgtcctcg 180  
tcttcacga cgcctcgcc accgtaatgc tgccttcac cgaggccttc gtcgagtga 240  
ccccaactgc ctccaagtcg ttgcgcgagg ctaccgcttg cgctgtcgct tgcgctgccg 300  
cttgcgccgt ctactctgag ccc 323

<210> 41509  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H9

<400> 41509

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aaggggacag ttgaggggga atcttgaggt atggaagcat atgggaaagg aagatgcaaa 120  
atcgaaggaa atgctcgata agttgcatga agcactgaaa gagaaagatg aagaaatgga 180  
tcatattgat tctataaacc agacccttat tattaagcaa cgaagaacca atgatgagct 240  
ggaagaagcc aagaaagaac tgactactga cctacttaat atgtcatcag ctcgatccat 300  
tgttggtgtc aaaaaaatgg gtgagcttga caagaaaact ttcattgtct 350

<210> 41510  
<211> 477  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-021-Q1-K1-A1

<400> 41510

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gccgtctct ctgtctctcc tgcgcgtggc gcagctgccg tcctatacca ggcgcccagg 120  
tctagcctcg tcggtgcctt cgccaggtct ttctcgggcc cttecgccaac gacgagcgcc 180  
cgctaggtta gaaggtatgc attcgtgttc ataatttgt atttgactaa aaagactggg 240  
cctacgcatg ggggctccaa aacagaggtg gacttctgag gaagaggctg ctcttagagc 300  
tggagtagcc agacatggag ttggaaattg gcgcatgata ttgaatgac cagaacttag 360  
ctccacattg cgctaccgct cgaatgttga cctaaaggac aaatggcgca acatgaatgt 420

aattgtcact tcacgagta ctctgacag ggggagaact tncacgagga gaacccc 477

<210> 41511  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G2

<400> 41511

gaaactttta aacatttgcc catgtatggt ttagaaagtt taatatttgc atgccttcta 60  
tatgattttg tatatttttc ccatattatt cattttgcaa attaagtttc aaacgagtac 120  
ttaggaggtt aatgacacag ttgtatgatt gtatatctta atggaagatc tgttaattta 180  
ttaatgtttg cttgcataac atgtgcatga tgtcttttgt gtacagttta tcttaaattg 240  
aactatataa agatttggtt tgatacttct gtatcttttg atcataaact cctatgttgg 300  
aggccataga cagaactatc aacttacct acttctcgca tggctaacgt tatagatgct 360  
agtaaggttc tgggtgtgcag cttgggggtt taaacact 398

<210> 41512  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F1

<400> 41512

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aggtccaagg accggttcaa gagggagctg gatggcattc aggtggagct acaagcaacc 120  
gacccgagcg aatgagcat ggacatcgtc aagtcgagag ccctctgaaa cagccccggc 180  
cgctgcacct gcacgctgca ggggcgcacg ggctcctgca tgcccgtggg tcgtcgaatc 240  
cttgcttggtg tgttggaac ggtcttggtt tttcgtgtcc ttgttttctt ggaagcaaaa 300  
gccctgcatt ctatatgaga ctgtatgcca ttttccatct ttttctctcc ccatactctt 360  
gccctagtcc tgctaccgct gtagactaga acttatttgg tgtttgatct cgtggcattg 420  
tcgagtcttt tatgtgtcta tgcaatgcta g 451

<210> 41513  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F10

<400> 41513

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gggccgtggt gtgtgccaag gccggctgcg acgacgacca cctcgactgc caggccggtc 180  
cgttcgcgct ggtctgcgta gagaccaacc tctgaagcc tgtattcgcg tgcgcgacca 240  
gctactcgtc agtgaccggc gcgtggagtg ctcccgctgc caaccatgac agccacgact 300  
tcaactacta ctgcttgaga agctatggca agcagagcct tcttgctggc gatgccgtct 360  
acttctcttt ccaggatgac caaagcatcc tcacgtacga cctgggtagg ca 412

<210> 41514  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F11

<400> 41514

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cgcgcggtg tggttctcgt ggtgctcctc ctggccgcgc tcgcggtggc gccgtttgcg 120  
ggggctgcgc gtgtggatgt cgtggagggc aggtccatgg cgtccgccga cgcgcctgag 180  
gcggcggtg acgcgcccgc tcccgtccc gactccgct cataccgga ctgcgcgtcg 240  
gaggcgccct ccagcagcag ctcatcgac tagccgcgca caacgcagtt cttgtcatga 300  
tctatctagc aaataaaaag atcatatgtc tcgtttgatt ctctggaata actaatagta 360  
tatatgctgc gcccgatga tatataaata tgtgcatcaa atgcgtgcgg caaacgca 418

<210> 41515  
<211> 440  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-020-Q1-K1-F12

<400> 41515

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cggggagggc tgctacgggc gcgtctacaa cgccacgctc agcgacggcc gcgccgccgt 120  
catcaagaag ctcgacacca gcgcctcgca agactccgac accgacttcg ccgcgcagat 180  
cgcgatggtc tccaagctga agaacgagta tttcctggag ctcttagggt actgcttgga 240  
agacggcaac cgaatgctaa cctatcagtt cgccacaatg cgttctttgc acaacatact 300  
acacgggaag aagggagtc agggcgcgga gcccggtccc gtcctcaact gggctcagcg 360  
agtcaagata gcctacgggg cagcgagagg gctggagtac ctgcacgaga aggtccagcc 420  
gtacatcgtn caccgggaca 440

<210> 41516

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F2

<400> 41516

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gggggtactgt tactactacg gcggctcatt cgccgcggtg gagacggcgg ccttcttgaa 120  
ggcgtgcggc cgatgcagcc gtcgcctcgg gcccggccac gacaccttca tctacagggg 180  
cgaggtggcg ttctgcagcc aggagtgccg ggagaagcgg atcgagtacg acgagcgcat 240  
ggagaagacc tgctgctcac tgacctccat caaggaggcc ccgtccgtgt ccggcgccag 300  
cggctccgac cagtccggca gcggc 325

<210> 41517

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F3

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 gcgagattgt tggcagaggt ttcaccttaa cgggtataa ggtctagttg atttccagtg 180  
 atttaagacc tgctttataa atcgacactt tagctgatgc ttgtcgaaac gacgatgata 240  
 cctgccttcc ttcacaattt tgtttcttgt aagagtctac ctagtgctga atgccagcaa 300  
 agacggggcac atggttgcaa cattgcctca ataatttgcc cgcgcaattc ttgattttga 360  
 tgcattgtaat tctttgtcag ttgcattgtgc tgcagtcctt gcgtgcagac tcaaa 415

<210> 41518  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F4

<400> 41518

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 gtggcctgat gcttctgata ctgatgcttc ctcccactat aaggttccgt tctcaagaac 180  
 tgtctacatt gagaaaactg attttcgcct aaaggactca aaagactact atgggctagc 240  
 ccctggtaaa tctgtcatgc taaggatatgc gttccccata aaatgcacag atgttatctc 300  
 tggtgatagt cctgatgata ttgttgaaat tcgagctgaa tatgatcctt tgaagacttc 360  
 taaactgaag ggtgttcttc actggattgc tgagccagca cctgggtgtag agccattgaa 420  
 ggtggaagta agattattcg agaaattggt catgtcag 458

<210> 41519  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F5

<400> 41519

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 acaggcaagg gaatgcgaga agtacagtga gcgatttggt ggggcatgca tgatcgcaga 180

caactgcgcc aatgtgtgcc gcggtgaggg cttcttggcc ggcaggtgca gcaccttccg 240  
 ccgccgctgc atctgcaacta ggcagtgcta aacaagatcg ctcgatcgct cgccatgcat 300  
 cgacaaccta ttcttaataa cgttcattat ctggttctta tttatgacga atgtcatgta 360  
 tgttctgggtg actgtcatgt atattctgat gactgtcatg tatcttggtc atgtatgctc 420

<210> 41520  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F6

<400> 41520

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 caggtgaaga tgagttagaa attccagaac ctgccgaaga aaattatggg gggttatcatt 120  
 cagaagttga ggatgatagg cgtaaatatg aagatgaaga gttttatcat gagtcagaag 180  
 atgaatatgt tgacgactat gatgagcatg ttgagtccta caaatctgat gatgaccaa 240  
 aagatttaac tgagccagga catgcatcgt ggttgacaa agttcagcag actgtacaaa 300  
 atgttttcca aaaattcaac ttttttaaga ccctgtaca tttgtcagag gcttctcatg 360  
 ttcgtaagga gtatgatgat gctagctcaa agctttca 398

<210> 41521  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F7

<400> 41521

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 ccagggctcg cgctagcgtc gtcttcgtcc ctgctgctct cctcttcgtc gccatggatg 120  
 tggcaccgat ggccgaagca atgtccgctg atgcccccta cgacgatgcc cgcggactcg 180  
 ctgctgacgc acctgtcgat ggacctatcg gaccggcagg tgcacctggt ccacagggcg 240  
 tagagggact atcggccatt gaggacgacg acgatgactc caccaactaa ggccaagcac 300  
 gtctgtccga ttgcatttgg aacatgatat gaaagaaaag tgagagcaat gtttttttaa 360

accaaaaaatc cataataatg tgtgggtcatc cgtgatatgt aattgatctc cctctcttttc 420  
 tttctgtttg atttcgatgt gtta 444

<210> 41522  
 <211> 461  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F8

<400> 41522

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 cggcagctgc cacacgccgc ggcgaagga gctgggtggag aaggcctgcc tcggcaagcg 180  
 catctgcacg ctgcccgtgt ccgccgacgt ctacggcggc gacgtcaact gccctggcac 240  
 caccgccacg ctgccgtgc aggccaagtg ctccaagagg tcgcccagag ccgcgcagta 300  
 attcggtagt cgtcggttc ggctcggtt tgctacctcc cgtcgtcttt cattcttcat 360  
 tgctgatgct gctgctgtac catgggacca ttatctgacc ggagacgtcg attcggattt 420  
 cggacccatc catgcgtggc tgggtgggga aacagattgt c 461

<210> 41523  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-020-Q1-K1-F9

<400> 41523

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 atccaccatg ggcggtggca acggccagaa gtccaagatg gcccgcgagc gcaacttggga 180  
 gaagaacaag ggggccaagg ggagccagct cgagaccaac aagaaggcca tgagcatcca 240  
 gtgcaaagtg tgcattgaaa cattcatgtg taccacgact gaagtgaagt gcanggagca 300  
 cgccgaggcc aaacattcca agacagacgt gt 332

<210> 41524  
 <211> 465  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G1

<400> 41524

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 atcagcggcg accaccagga cgagatctgc gacgtgcgcc tgctcaagag ccccgaggcg 180  
 gactgcgccc agatcgacca ctcccgcgac cgctgcgccc tcccgctcac ccgcaacgac 240  
 ggcataagc agagcggcgt ccgctacgcc aaccccatcg ccttcctccg caaggagccg 300  
 ctccccaact gcggcgagct gtcgcgcgcc tacgacctt acaacgagac gtccgagaat 360  
 tcctaagcgt ccaaacaaaa gttctctcgc tcgctttttt tttaaaaaaa aaatcccata 420  
 tacatatagc acatttggtt cggtttgttg atgcgcgcat gcatg 465

<210> 41525  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G10

<400> 41525

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 ctccaagcct ggccaattgg tctcacccc caacgttgcc accatctctg acgtggagat 180  
 caaggagcac ggtggcgacg acttctcctt tacgctcaag gaggggccga ctggcacctg 240  
 gacgcttgac accaagaccc cgctcaagta cccctctgc atccgcttcg ctgtcaagtc 300  
 cggtggctac cgcacgcgcg acgacgtcat ccccgccaat ttcaaggccg gcaccaccta 360  
 caagaccacc ctcaacatgt aattagcctc ttatgacaaa taatatatttg agagagctca 420  
 tctggaccaa gtgccagcga gctaaatatt aaattttttc ttt 463

<210> 41526  
 <211> 405

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-020-Q1-K1-G11

<400> 41526

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 cctggccang gccagattg actctgttct ggatcttgca cgggtgcacaa ttgtgtccga 120  
 gctctccaac aaggatttcg actcatatgt cctttctgag tcaagcttgt ttatctatcc 180  
 tctgaagatt gtcacaaaga cctgtggcac taccaagctc ctgctcacca ttccaagaat 240  
 ccttgagctt gctgaagagc tgtctatgcc acttgctgct gtgaagtact cccgtgggac 300  
 gttcatcttt cctggcgcac agacagcccc ccacaggagc ttctctgagg aagttgctgc 360  
 acttaaccgc tacttttgcg gcctgaaatc tgggtggaat gctta 405

<210> 41527  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-020-Q1-K1-E9

<400> 41527

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 catggtcgtg ggcgcggtcc ttgcggtgct cgtcgccggc ggggtcgtgcg ggcccccgaa 120  
 ggtgccaccc ggcccccaaca tcaccaccaa ctacaacggc aagtgggtca ccgctagggc 180  
 cacctggtac ggtcagccca acggtgccgg cgctcctgac aacggcggtg cgtgcgggat 240  
 caagaacgtg aacctgccac cctacagcgg catgacggcg tgcggcaacg tcctcatctt 300  
 caaggacggc aagggtgctg gctcatgcta cgaggtgaga tgcaaggaaa a 351

<210> 41528  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-020-Q1-K1-D4

<400> 41528

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gcaaagaaga agagagcggc ggagagcggc gaggcggcgg aggcgaagaa gatccaggac 180  
gacttctgct cgacgctgtg cgagggcaag aaggggacgg acctggctgt gtgcaaggag 240  
tcctgcgcgc tctcccatca gtccaacctg gtgctgtacg gcaggatcca gtgcaagggc 300  
aagtgcaccg agcagaatgg catcacggcg ccggccatga aggtctgcc a ggaggagtgc 360  
gacaaggcgt acgtggtg 378

<210> 41529  
<211> 228  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D5

<400> 41529

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tcggtttttt tttttatttt catccaactt taattttatt gccctttttt catagcacac 120  
tactgttcat ataatctctt tacccaactc aaaatgctat agggtcattt ctctttcacc 180  
agctagaata ccatagatta cgtgtacact tgaatactct acccaaca 228

<210> 41530  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D7

<400> 41530

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aaggcaatca ttcttcacaca acaatccttc caattttggt gacctgggtg gtggtgtaat 120  
gggctgtaga gggtttcatt ctacctttcg agcaaccag agtggacttt cactcaatat 180  
cgatgtgtcg actacaatga tagtgaaacc tggctcgtgc attgattttc tgcttgacaa 240  
tcagaaagtt ggtgatccaa gcatgattga ttgggctaag gccaaagcgt cactgaagaa 300  
cttgaggata aaaataagtc cagcgaacca acaacagaag attgttggtc tcagcgaaag 360

aacttgctgt gagcaattat tcacactgaa acataaaaaat ggtaacaatg gtgactctga 420  
agagatcact gcttatgatt acttcgtaaa gc 452

<210> 41531  
<211> 455  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-020-Q1-K1-D8

<400> 41531

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gcggggagtg ccggcggcgg tgctccaaga cgcaccacaa gaagccgtgc ctcttcttct 180  
gcaacaagtg ctgcgccaaag tgcctgtgcg tgccgcctgg cacctacggc aacaaggaga 240  
cctgccccctg ctacaacaac tggaagacca agaaaggagg gcccaagtgc ccgtgagaag 300  
atggcggccc aatacgcggt tttcccgccg gctacgcggg cgggcccgtcg gcccaacgta 360  
acctaccacc gtagttggaa gcgtcgtang ttaggttagg aataacagnn ctctcttttt 420  
tttctctcct cgttccgtgg ttgtttgggc cgggc 455

<210> 41532  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E1

<400> 41532

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gctcaacaag tcggcagcgc tgcacatgaa catcaacgcc gccaaaggcc tccaggacgt 180  
gctcaagacc aacctcggcc ccaagggcac catcaagatg cttgtgggtg gagctggtga 240  
cctgaagctg acgaaggatg ggaacaccct cttgaaggaa atgcaaattc agaaccaaac 300  
tgcaatcatg attgcgagga cggctgtggc acatgatgac acaagtgggt atggcacaac 360  
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<210> 41533  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-020-Q1-K1-E10  
  
 <400> 41533

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 ggaaccaccc ggcccccaaca tcaacaccaa ctacaacggc aattgactca ccgctagggc 180  
 cacactggac tgtcagccca acggtgccgg ttctcctgac aactgcgtaa cgggcgggat 240  
 caagaacgcy aacctgccat cctacagagg catgactgcy tgcggccact tccacaattt 300  
 ctaggacgac aatgactgcy gctcatgcta cgatgagtga tgcgaggaac aacctgagtg 360  
 ctcgggcact ccaatcacgg cgtacataac tgacatgaac ta 402

<210> 41534  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-020-Q1-K1-E11  
  
 <400> 41534

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 agggagaaaa aatggcactg gccattgag gaagcttgag aaccagttaa caagaattgc 180  
 caacatattc ttggacaatc ttgttaacag agttttaagg tttcccagca gacatttttc 240  
 gagtccagga agagcgcgtg caaccaccac attcatataa ttaataagca aggttttagag 300  
 aagaggcaac atgggcacaa agatgaagaa ngggatcctg aagccgttcc gctatatctc 360  
 aaccatcatg gatggtaagg aggctgaaat gcaaattggg ttcccagcgg atgtaaaaca 420  
 cgtggcacac atcggttggg at 442



<210> 41535  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E12

<400> 41535

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 cggcggaacc gacacctgcg aggacgcctg caaggacgcc cccgtcagcg acatcaagaa 180  
 cgtctgcata accaagagct tcgagttcga gaagctgctg cgcgtcacgc tggacctcat 240  
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 gccggtcgga gggtaaggct cgtcagctgg ccccccgcc tacggcgctg cgtcttctga 360  
 tgccccagct tatggcgcca gcgtagcgc accgacctg gagcagagta ctgcttagac 420  
 tgcattgagt atatcgtggc ggcacacacg ca 452

<210> 41536  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E2

<400> 41536

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 cgccaccacc accgctccgt tgcgccccgc agccgtcacg cgtgacgttt cccggggggc 180  
 cgggggagag agaggcagaa ggaggaggca cggagaggac gagacaggat gctcgggttc 240  
 aggagatgc cgtggtcgtc ggcgcattgag caggagcagg cgcggtcgga gcagctgtgc 300  
 gagggggtgt cggccgtcgt ggcggcgcg caggggatgg agaagccgct gacggctgtg 360  
 gcggaggcgt tcgatgagct ggcgcgcggc a 391

<210> 41537  
 <211> 190  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E3

<400> 41537

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aatggcgaac gattgggtgg acacacattc taataccaca ctcatgatgg atctacgtac 120  
tgagcagtgg ctaccaagcc acgtgctctc tagatatcca atgacatcca ttgagagagt 180  
caaagaagat 190

<210> 41538

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E5

<400> 41538

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aggaagatcg actctgaact tgccagtttc gggaatttga gaggcogctc ctctataatt 180  
caccggactg tctggtgtaa cactggacta tccggtgtgc cagcggagca acggctactt 240  
cgcgccaacg gtcgtctgca gagaacatta aatgtgctac aatgcgtgcc tgcgcgcgca 300  
gaagtcagtg caggcgtcag aaggcgaacc ggacagtcta caggacctgt ccggtgcacc 360  
accggactgt ccggtggccc caattgtcag agtccaacg gtcggaaccc aacgaccaag 420  
tgatgtggct agcgcacccg acagtgt 447

<210> 41539

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E7

<400> 41539

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atagccgagg agtgtaccat agagatctga agccagagaa tctactttctg gactcacatg 180

gaacccttaa agtttcagac tttggcctaa gtgcatttgc accacaaaca aaagaggatg 240  
 ggcttctgca tactgcctgt ggaactccaa actatgtagc gcctgagggtg ctcgctgata 300  
 aaggctataa tggatggct gcagatgtat ggtcctgtgg cataatcttg cttgttctta 360  
 tggcgggata cttacctttt gatgatgcca atctgatgag actgtacaaa ctgatctgcc 420  
 atgcaacttt tt 432

<210> 41540  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D3

<400> 41540

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 cgtaccactc gtcttcgtct agcctccgc ccgcagccac catggcaccc ggctcttaca 180  
 ccgacatcgg caagaaaacc agagatttgc tgtacaagga ctacaacacg caccagaagt 240  
 tctccctcac cacctgctcg ccccatggca tcgcaatcac agctgcagga acaaggaaaa 300  
 atgagtcac ctttggcgat cttcacactc aaattaagaa caataaattg acggtcgatg 360  
 tcaaagcgaa ctcagaatca gatcttttga caacaatcac ttgtgatgag attggtactc 420  
 cagggtcaa atcaattctc actttg 446

<210> 41541  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C1

<400> 41541

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 cttagatgat aacattgatg atgaaaagt gcgtgaaatc tttgctgagt atggcaatat 180  
 tacttcttgc aaggttatgc gggattctta tgggtgttagc agagggtatg gattcgttgc 240

attcaaatat gctgaagatg ctaaccgagc tcttaccgag atgaatggca taatgggttg 300  
aagcaagccc ctttatgtag ctcttgacac gcgtaaagat gacagaaagg caaagctaca 360  
ggcacagttt taacatatgc gtctgttgcc aatggcacct tcagtatgtc ctgcgatgcc 420  
catg 424

<210> 41542  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C10

<400> 41542

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gaggagtcc tggaccgtgc ccggtcccg ctcacctcca acaacggcat aaaacaacag 120  
ggcgttcgtt acgccaaccc catggccttc ttccgtaagg acccgataaa cgattgccgc 180  
gccctactat agacgaacga tctaaaagac gcctccgaaa caccatgata agcctgcgcg 240  
ctgggcatac ctgtatccat tgctgccctg cccgctcacc caagaattga agatggtagc 300  
tgcactacgc gccatctgta tagtgataca ctatgcactg catgcgaagg catgagataa 360  
tgggtctgac ctcat 375

<210> 41543  
<211> 360  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C11

<400> 41543

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tgggaagatg agcaccaagg aagtggatga gcaaatgctg aacgtgcaga acaagaactc 120  
ttctacttt gtggagtgga tccctaacaa cgtgaagtcg agtgtgtgtg acattccacc 180  
catcggcctg aagatgtcct ccacattcat cggcaactcg acctccatcc aggagatgtt 240  
ccgccgcgtc agcgagcagt tctactgcat gttcaggagg aaggccttct tgcattggta 300  
cacgggtgag ggcattgatg agatggagtt cactgaggca gagagtaaca tgaatgacct 360

<210> 41544  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-020-Q1-K1-C12  
  
 <400> 41544

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 tcggcgggca tgatgacaag ataagcatag ttctcaacaa ggccgaccaa gttgatgcac 120  
 agcagctgat gagagtgtac ggagcactgc tgtggtcgct cgggaaagtc ctgaacacac 180  
 cagaagtcac gcggtgtctac ataggttcat tcaacgacaa gccgatcagg gagacagcgg 240  
 ctgggccgct gggcatggag ctgttccaga aggaacaaga tgacttgctc tcggacctga 300  
 acgacatccc caagaaggcc tgcgaccgtc ggatcaacga gttcgtgaag cgggcgaagg 360  
 cggncagggt ccacgcgcac ataatcagcc atctgaagaa aagatgcctg cgctgatg 418

<210> 41545  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-020-Q1-K1-C2  
  
 <400> 41545

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 cttgtatgag cagattcatc ctgatgatgc atttggggag caaatgatta gaaatcttga 120  
 gagtagagga tgcccccttc tcggtataaa tgctacacca accctgagtc acaaggagaa 180  
 actttttctt ggcaatggat ggcagagagc cgttgcatgg gatatgctga aaatctataa 240  
 tgacttcatt gacagtcaag aaagacgcag gatcgaacgg ttagaactgt ttgatgagtt 300  
 tgaagagtgg tatatgatgc angaacta ctgtgtggcc tatggaatca acgacgccga 360  
 gggcatatct gacagttttt gatttgggga gacat 395

<210> 41546  
 <211> 332

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-020-Q1-K1-C3  
  
 <400> 41546  
  
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 ttctacactc ctgtcttttt cttgtatgag ccgattcata ctgatgaaac attttgaaag 120  
 catacgatta aaaaacctga aagtgaagaa ccccgaaagt tcgcattacc ggactcatga 180  
 tacatatctt ccagatgaga aactttttct tagaaaccga tagaagacat ccgatacata 240  
 gaatataatg gaactctata aagaccacat tcgctaccgg gaacgctcat gtattgacca 300  
 ggtcaaactt cgtggtcagg actattattg at 332

<210> 41547  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-020-Q1-K1-C5  
  
 <400> 41547  
  
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 ggcaagccga ccgccgacgt accaccgcgc caaccgaga gaaagatgga gatgatcaag 120  
 aggatcctca tcgccgcgct cctcgtagtc gccgtctcgg ccaccgcagt gctggcctcc 180  
 accgaggccg ccgccgccgg cgccccagcc gcctccgagt cgtcggcgtc cgccgaagcc 240  
 cccgctggcg ccgccggcgc cggcgccggc accggcaccg ccgcggggcc ctccgccagc 300  
 ggcgcgcgc ccgccctcgc cgccgcgcc gccgcgctcc ttttctccct cctcgcttac 360  
 tacctgcact aagcggacgg acggacggac gcgcgcatgg cattggcatg catggactgt 420  
 tgaacatcta tgcatgcatg gacgacgtca 450

<210> 41548  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-020-Q1-K1-C6  
  
 <400> 41548

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 gtgggtctcta ttatcattat caagcagctc gccgagccct cttcctgaaa gaatgttgta 120  
 catattagca tttgaactct ggccagtatc gcggaagaag ttgggtgctg tttggttcac 180  
 gaaatgtaac gtaaagggtta atggtaacgg ttacactcg attacggacg gtaacaagtt 240  
 tgaatagtcc ggtatcaaatt tttagtatgg tatctgatta cggttggact aaaacaaaca 300  
 tgatttaacg ttatcactta ccattacgt tacaatatatt tgaatcaaac ggtaccttgg 360  
 tgtttaac 368

<210> 41549  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C7

<400> 41549

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 gtgccgatag ggatcgtgaa aaatctcgtg aaagggtagc ggaaagagac cgtgaggaga 120  
 ggacccgtga acgttcgcat gaccggactc gtgatagaga tctacgagat gagaagcatc 180  
 accatagaga ccgtgagagg actcgggata gggagagagg aaaggaccgt gaaagagacc 240  
 acggtcgtga ccgggagcgt gatcgtcgtg acagggacaa ggatcgtggt cgggactatg 300  
 atagagaaaag ggaccgtggt cgctctcatg atcgccatcg tgagagaggc agggaccgtg 360  
 gtgaaagaga ttatgagcgc accatccatg aacgtgaccg tggtcacatg catgagaggg 420  
 atgcagacta tggcaatggt gggacaaaagc atgacaa 457

<210> 41550  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C8

<400> 41550

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ccagtctcca ccggcagcgc caatagtaat agccatgggc tccaccgccg gcgacgtggc 180  
cgcggtggtg gacgaggagg cgtgcatgta cgcgatgcag ctggcgctgt cgtccatcct 240  
gccccatgacg ctgaagaacg ccatcgagct gggcctgctg gaggtgctgc agaaggaggc 300  
cggcggcggc aaggcggcgc tggcgccga ggaggtggtg gcgcggatgc ccgcggcgcc 360  
cggcgacccc gccgcgcgg cgccatggt ggaccgcatg ctccgcctgc tcgectccta 420  
cgacgtcgtc cgggtgccaga tggaggaccg gga 453

<210> 41551

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C9

<400> 41551

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gcaccgcaa tgggtgcctcc aaggtcaccg tcaaggacgt caccttcaag aacatcaccg 120  
gcacctctc caccocggag gccgtcaacc tgctctgtc tgccaagatc ccatgcaccg 180  
gcgtcaccat ggacgacgtc aacatcaagt acagtggcac caacaacaag accatggccg 240  
tatgcaagaa cgctaagggc agcgccaagg gttgcctcaa ggagctcgca tgcttctaga 300  
accaccatcg acccatctct ctagttatac aatgtgtttg gttgttgat gctg 354

<210> 41552

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D1

<400> 41552

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gacagagagc agggacgttg gggatgggtt ccgctgcatt aggatgggtca acaacatcta 120  
cctgaacttt gatgctttac atggagacaa ggaccatggt ggtgtgctgc acgggacggc 180  
ccttgtgctg tgggagtggg gcgagggaga caaccagcgc tggaagattg ttccctggtg 240  
aacaaggaaa tgtgtgaccg agcccgacc aaggaggagc tctgtccgta ataagtgaag 300



tgattggtac tgaagtttct ggaaataaga ggctcttctg agatgcctgt ttgtgtgagt 360  
 atttgcgttt ccattccgtt ttcataataa taaaacgcat tgattattaa tatatgtaat 420  
 gtgatgctac actgagtggc agcgttggtg tatatt 456

<210> 41553  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-020-Q1-K1-D10  
 <400> 41553

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 gatgtccctt tccacctgg gaggcaggac aagcctgagc cttcaccgga aggcctgctt 180  
 tctgatgcca cccaatgttc tgatcacctt aggcagggtt tctccacaca gatgggttag 240  
 agcgaccagg acattgatgc gctttctggt ggtcacaccc tgagaagatg ccacaaggac 300  
 atgtctggat ttgaggggagc ctggacggcc aaccctgtga tctttgacaa c 351

<210> 41554  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-020-Q1-K1-D11  
 <400> 41554

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 agatatgtga ttttgggctt gctcgacca cctcagaaac tgattttatg actgaatatg 120  
 ttgtcacaag atggtataga gcaccagagc ttttgttgaa ctctcagaa tatactgctg 180  
 ccatcgatgt gtggtctgtg ggctgtatat ttatggaact gatggaccgc aaacccttgt 240  
 ttcttgaag agaccatgtc catcagctac gtcttctaata ggagctcatt ggcacgcca 300  
 atgagggtga tcttgatttt gtaaatgaaa atgcaagaag atata 345

<210> 41555  
 <211> 428

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-020-Q1-K1-D12  
  
 <400> 41555  
  
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 tcaatgctgg tttgctagt tagatccata gtgagatttt gttgatggag gagaatcgtc 180  
 ccatttgtat ctgctccgat atgctatttt ttgaccatgt catggctaata accacgagtt 240  
 tgttgtgcac catgggcata atgagcattc tgtattctcg ctgtgtgcta caaacatata 300  
 tggaggaata taaattagca gtatttggtt tttttttttt tgagctcccc ccacttcttc 360  
 aaaaccctag acagtcctta cctggaaaat ttccacatgt acaaccctta acaattgacc 420  
 tgggtggaa 428

<210> 41556  
 <211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-020-Q1-K1-B9  
  
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 ctatgtaata agtactctga tgatattgtg acatttatct ctatacactc tgttactata 180  
 tgtgtgtgtc tctttggcgc atatatgaga tgcacccgac tttatccttt 230

<210> 41557  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-020-Q1-K1-A5  
  
 <400> 41557  
  
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 acatgtattc ctgagagat cgtgtataat gttgctaaaa tccaccttct acatcttcca 120

cggatcatcg aaggtgctac agatggaaag ggcacaggaa gacacgggtat catcacagct 180  
aggacatgca acgatatattt gattgctctt gctgccgtat aaccaataac tcacaagcgt 240  
cttattgaga aggagctcga aggatttgcc attatgttga acaaaacacc acccactttg 300  
acttttataa caaaggacaa ggggtggaatc aacttctcat caacagtg 348

<210> 41558  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A6

<400> 41558

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catgacagtt gtcgaattg ctagtgaaga tgcacgtgct atttgcatgc gagagtatgg 180  
atcatctcct gatgtcgaca tatatgggtga tccaggtttt acatttccat atgttacacc 240  
acatctacat ctcatgattt tcgagctggt gaagaactcc cttegtgcgg tacaggaacg 300  
gtatatggat tctgataagc ttgcacctcc agttcgaatc atagttgctg atggagcaga 360  
ggatgtaact attaagatta gtgatgaagg tgggtggaata ccaaggagtg ggctctcaag 420  
gatttttacg tatctctata gtacagc 447

<210> 41559  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A7

<400> 41559

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ccaaggtaaa cagcgaattc aaggaattgg atattgcaat tgtgaaggca accaaccatg 180  
ttgaatgcc tcccaaggaa cggcacgtca gaaaaatact cttggcgacc tcagcaaacc 240  
gccctcgcgc agacctctcg tactgcatat acgcattgtc aaggagattg tccaagacaa 300

agaactggat agttgcgctc aagacattga tagtggtgca taggcttctg agggagggcg 360  
atcccatggt caaggaagag ttcttggcct actcatccag agggaaca 408

<210> 41560  
<211> 190  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A8

<400> 41560

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tctaggtagt gtctctaacc tgtcgtactg acttctgtcg atagaagaga atggggccag 120  
atgctgctta ggtgtgatct atcctatcca tccatggata ataaagaagt ttgtggattg 180  
ctgttttatt 190

<210> 41561  
<211> 455  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-020-Q1-K1-A9

<400> 41561

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aatacgctaa acccagacca ccaccggagg aaacagggat gaattcgcag cccagcagt 240  
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cctccctgtc ccagccctaa ggctcgtagc ggatcgtgag ggatgatttt gtgtggtgtg 360  
tcgcacgtgt gaaatgcctt tgttgctcca atattcctac cgtgttgggg gtggtcgctt 420  
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<210> 41562  
<211> 423  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B1

<400> 41562

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gctgcactgc accaatggcc gccgtcgagg tccaggtecc gactgccgct cccgtcgagg 180  
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cgaacgagga gaccgctgct ccggcggcgg agaccgaggt cgtcgccgct aatgagccgg 300  
tgtcggccga ggccgagact gagtccaagg aggtcgaggt cgaggccgag gccgtagctg 360  
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cag 423

<210> 41563

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B10

<400> 41563

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cagccggcca tcactctgct tctctgctc attgtgacca ccgatgtggc gcaggcggcg 180  
agggaatgcg agaaggacag cgagcgattc cttggggcat gcatggcgct ggacaactgc 240  
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tgcatctgca ctaagccgtg ctaaattaac ctactcccgg cagttcgatg gtggacgttt 360  
attctattta ttggcttact tgattttttt tgccctaaca ataagaaaac gcacgtgctg 420  
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<210> 41564

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B11

<400> 41564

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tctataaaac ttaatgttgg aggctttgga tcggcgacgc taaagtcaaa catgtcaaaa 180  
gaagagtata aaaatatcgt tgtccaagct aaagaacaca tcttggtctg tgacattttt 240  
caagcagttc taagccagcg cttggagaga cggacgttcg cggacccctt tgagatctac 300  
cgtgcgttgc gcatcgtgaa tcttagccca tatatggcct atctacaggc acgaggctgt 360  
attctcgtgg catcaagccc ttgaattctt acgcgggt 398

<210> 41565

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B12

<400> 41565

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tctataaaac ttaatgttgg aggctttgaa tcggcgacgc taaattcaaa catgtcaaaa 180  
gaagagtata aaaatatcgt tgaccaagct aaagaacaca tcttggtctga tgacattttt 240  
caagcacttc taaaccatcg cttggataga cggacgttcg cagacccctt tgagatctac 300  
cgtgcgttgc gcatcgtgaa tcttaaccaa tatatggcct atctacaggc acgaggctgt 360  
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<210> 41566

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B2

<400> 41566

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tctgcaaggt ccgcgaggat ttcatcacct acggagtcgg tgacgcgcgtc ctaaacgagc 120  
tccaggtctt ctgggagatg aaaatgctac actgtggcgc gatctcgggg aacatagacc 180  
gaaccaaggc tgctgccgcg tccgtcggag gcaccaccgg caccgacccg tccgtgcacg 240  
acctgaacgt gccgtacgag gccacatctg aggagtacgc caccocgacc gctgacatgt 300  
tgttccccgc gacaccattg cagaccccaa tccagactcc tctgccaggg acagacacag 360  
cgatgtacaa catacccact ggcccttcgg attatgcccc ctcaccgata agcgatgtca 420  
ggaat 425

<210> 41567  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B4

<400> 41567

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ctcactactg ttcaattcct ggaactccgg gagattaaat ctatacact tctccttctt 120  
tacctgaaca tatataaaac ctcttgTTTT gtgaaagcaa aggtgagtag acatcaacgt 180  
actcaccaaa cgttctgttt agctaaagcg tactaacttt atgtgttgtg aagctccact 240  
agttgctttt agcttgtcag atatttacta ttagcataag ccaaatttta tcaataacca 300  
acccatgaac cgTTTTctta tcgatgaaca tcattatcat tctcgtatgc aaatccatta 360  
attgaaccat attatcttga accattctta tctctaacca aacaatctta caatgctgct 420  
cataaccgtg agcacgactt atatattctt ttct 454

<210> 41568  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B5

<400> 41568

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caggttacga tgttgacatc cacatcatct acatctttgc cggaagaaat gttcacatgc 120

actctagaac tgcaaagttc ttgcaaaggt cataagagag attcaatttc tccacaatat 180  
 ttgaagccag ggactggtga atctcaactc tttcactgaa ggagtttgta tttggacaaa 240  
 tttgaaaagc agcaggatga aatcatcagg tgggtggcctc tatatcttga tgatcaagat 300  
 tgtgtcggaa aagttcagct tggatgaat ttatccatgt cttccaataa ctatgggtcc 360  
 gaaaagatgc tgcaaggtgg ccctgcagtg gataccatca tatatgacat ggttctggaa 420  
 gcggcaatga gggctcaaaa tttcaacagc aaaatgc 457

<210> 41569  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B6

<400> 41569

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 tgctctcttt taatattaaa atgctgtcgt gcgtctctta tgtccctaata tttcttcccc 180  
 ttccttgctc cttcttttct tttttttatg gaccctttat ttcatttcac ttgccgtcgt 240  
 tctaaacttt ccagactgtg aaaccctta cgtttctccc cttcttttct ttgtcatatt 300  
 ttcccccttc gccactttgc tt 322

<210> 41570  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B7

<400> 41570

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 cgtcttctca tgcattggcg cagcgtacgg gaccgcgaag agcggcgtcg gcgtggcgctc 180  
 gacgcgtgtg atgcggccgg tgctcgtcat gacgtccatc gtgcccgtgg tcatggctgg 240  
 cgtgctcgtc atctacgggc tcatcatcgc cgtcatgac agcactggca tcaaccccaa 300



ggccaagccc tactaccttt ttgatggcta cgctcacctt tcgtccgggc ttgcctgtcg 360  
ccttgctggg ctgcgagctg gcatggccat c 391

<210> 41571  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B8

<400> 41571

gtgccagctg actgggggag gtcgctagcc taatcctoga actcggtgaa gtccttgaac 60  
tcctggagat tcgcctcgac accttctcct tctttacctg agcatatggt gcacctgttg 120  
ttttgtgaaa gcaaggggtga gtacacatca acgtactcag caaatgttct gtttagctaa 180  
ggtggactaa ctttatgtgg ggtgaagctc cagtagttgc ttttagtttg tcagatattt 240  
attattagta gaagccaaat tttagcaata accaaccat gaaccgtttc ctcacgagg 300  
aacatcatta tcatcatcgt aggcaaacc ataaatagaa ccatagtatc ttgaaccatt 360  
tgtatctcta atcaaagaag cttacaaggc tgctcataac cgtgagcacg actgatatat 420  
cggttct 428

<210> 41572  
<211> 423  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-020-Q1-K1-A4

<400> 41572

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gtcgtcggct gcgcgctgtg tccccgcgcc gatgccaccg cgttcgaggt cggcggcgac 120  
gacgggtggg tcgtgccgcc ggccagcgac ggcggcaggt acaaccagtg ggcattccaag 180  
aaccgttcc tcgtcggcga cgtcgtccac ttcaagtaca gcgaggactc ggtgctggtg 240  
gtgacggagg ccgactacga cagctgccgc gcgtcgcacc ccgtcttctt ctccaacaac 300  
ggagacacgg aggtgacgct ggaccgtccg ggccccgtct acttcatcag cggcgagacc 360  
ggccactgcy agcgtggca gcgatggtc gtcagggtcg ccgncaggc cgcacccccg 420

ccg

423

<210> 41573  
<211> 434  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-019-Q1-K1-H1  
  
<400> 41573

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tccctcgaaa tggaggcgac gagcaaggcg atggcttcag gcctcctcgt tctgctgctt 120  
ctcatcaaca caggctttgt cctgcccgtc cattccgagg actgctgggc cgacacccgc 180  
gtcatctgca ccaagacgca caactgccgg gacgacactt gcgcggggcg cggcatgccg 240  
gacggccgct gccactggga gttccccaac ctgggtgcct tctgccagtg cctgcgcccc 300  
aactgccact agtccggggcg cctcggattg gctcacttcg ccggcgatga tggatggtgc 360  
ccaactgcga ctgcccagtc tgctccaatt cgtgttggtt aaggcataat atataaactg 420  
ccaaattcac atgt 434

<210> 41574  
<211> 390  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-019-Q1-K1-H10  
  
<400> 41574

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aaggggtgcc attcacaggt tcagggtaca ggattgctcc ctactcttcc atcttgettta 180  
aagcaaagcc ttataatggc ggaggcaagt cattctcaag taagcacgaa taatggtgtt 240  
gtgatcccta acttttcaag ctcttagcca actgtactgc aagtatagca aactttggta 300  
tgtgaagtcg gaccaacctt tgcggaaatc aacggaagcc atggtttgct aaaggtatac 360  
tcatggagaa ttggagatat ggcaaacaca 390

<210> 41575  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H12

<400> 41575

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 gaggtcaggg cggtacattc tgggacagca accctgaagg atgcaacttc agaggctatc 120  
 cgtgactggg tcacaaatgt ggagaccaca cactatatct tgggctctgt tgccggtccg 180  
 caccctgacc cgatgatggg gagggagttc cataaggtta ttggcaagga aaccggagg 240  
 caggccatgg acaagtgggg tggcaagccg gacgtattgg ttgcctgcgt cggcggcgga 300  
 tcaaacgcca tgggcttatt ccatgagttt gttgaggatc aagatgtgag gctgggttga 360  
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<210> 41576  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H2

<400> 41576

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 gtgcgagatc gagggccacc acctcgcgcc ggcggccatc gtcggccacg acggtgccgc 180  
 ctgggcgcag agcacggcgt tccccgagtt caagaccgag gacatggcca acatcatgaa 240  
 ggacttcgac gagccagggc acctcgcgcc gacaggcctg ttctcggac ctaccaagta 300  
 catggtcatc caaggcgagc ctggtgccgt catccgtggc aagaaggat c 351

<210> 41577  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-019-Q1-K1-H4

<400> 41577

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ttgatgctac tatgggttga aatcgggcat gggtcggagg gcttttcagc ggctcaggca 120  
aaaggcgaca agtcagtga gagaagatag tgcttgatct aacccttgta caggaacaga 180  
gactgcaaag tctgaaggaa aggctaaatg taccttacga cgaaactcgg acggatcatc 240  
aagattcgct tagggctcta tggaatgcct cctttccga tacagagctc actagcttag 300  
tttcggaaca gtggaaagac atggggtggc agggcgtaaa cccagcaact gatttcaggg 360  
gcttgggatt tgnttcgctt gagaaacctt ttgtttttg 399

<210> 41578

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H5

<400> 41578

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cctgctcatt gcgtccaccg atatggcaca ggcaagggaa tgcgagaagt acagtgagcg 180  
at ttgttggg gcatgcatga tgcgagacaa ctgcgccaat gtgtgccgcg gtgagggctt 240  
cttggccggc aggtgcagca ccttccgccg ccgctgcac tgcactaggc agagctaaac 300  
aagatcgctc gatcgctcgc catgcatcga caacctattc ttaataacgt tcattatctc 360  
gttcttattt atgacgaatg tcatgtatgt tctggtgact gtcatgtata ttctgatgac 420  
tgtcatgta 429

<210> 41579

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H6

<400> 41579

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 aactggcttg cagagagttg gtgctaattt gatggattcg gaaatcaatg ctctaattgga 180  
 agctgcagat atcgacaaca gtggcacaat tgattacggg gagttcattg ctgcaacttt 240  
 gcatataaac aaagttgaaa aggaggataa gctctttgct gcttttctcat actttgacaa 300  
 agacggcagt ggttacataa ctcaagatga gctccaaaag gcatgtgagg agtttggtt 360  
 aggggatacc cgacttgagg acattattgg ggacatcgat caagacaatg atggacgaat 420  
 cgactacaat gagttcg 437

<210> 41580  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H7

<400> 41580

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 attcaggagc tacgaaatga tccactcgcc agccatggag acgaacaaag taatctgctc 180  
 cgatgtagtc gtcgccgtct ataccaccga cacgtcggcc atagtcgatt tcgaggcgcc 240  
 ctcttaggcg cctgatgag catccggaga ttcggttggc cctagaacaa gcggtgccgt 300  
 cgccgacgac gtggccgccc gctgagcgtc tgtaagetta ttactgggct actacctaca 360  
 ctgagcgact acacgcgggg cggaacgctc gggatgc 397

<210> 41581  
 <211> 229  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H9

<400> 41581

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 aagttctcag aagtatagtg tatggaagag gtgagctgat caaaccagca gtcacaccaa 180

ctgcatgtgc tgcattctgtt gagagaccat ctgatgtaaa gactgatgc 229

<210> 41582  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A1

<400> 41582

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gcgccggcgc atcacogtca tccacatcgg cctcgcagtg acggtcagtc gctgttaagc 180  
cctgggtgggg gttcttgatg ttgctttgtg gatcgatgga ggttgcoctct ggtcattcgg 240  
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tagtctgcaa accatcacga tagcaatatt gttctgctgc tcttcagctg aggatgctgc 360  
cctgtcctga actcctgatt ttgcttttga tctactatgt gatgatttgc tcttc 415

<210> 41583  
<211> 169  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A10

<400> 41583

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ttgactggta ttctgttacg gtggctttgc aaagctgttt gtttggttt 169

<210> 41584  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A12

<400> 41584

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gaaggtgagg aagaagctcg gcacccggtt ccccgcggt cgaatcaaaa agataatgca 120  
 agcagatgag gatgttgaa agattgcact agcagttcct gtttttagttt cgaggtctct 180  
 tgaattgttt ttacaagatt taattgaccg tacttatgaa attactcttc aaagtggagc 240  
 aaagacactg aattccttcc acctgaagca atgtgtgaag aggtacagtt cttttgattt 300  
 cctaactgaa gttgtcagca aggtaccaga tcttggtggc gctgattcct gtggagatga 360  
 aagaggatta cctagaggaa gaaagtcaaa tggcgtgacc cagagaatga tgaatcaaga 420  
 tctagtaaaa 430

<210> 41585  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A3

<400> 41585

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 ggtgctaaag atggaaaggg cagaggaaga caggttatca gcacagctag gacatgcaat 180  
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 gagcttgaaa ggatttgga ttaggttgaa caaaacacca cccaatttgc ctttcagaag 300  
 aaaggacaag ggtggaatca acttcacata aacagtgcg aacacacatt ttgaccttga 360  
 tacagtaaaa gcaatctgta gcgagtacag gatacataat gctgatgtct ccctgagata 420  
 tgat 424

<210> 41586  
 <211> 337  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E5

<400> 41586

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ggacgttgac attggatctt cggcggtagc aaatggagta ttgggtcttg cttttggtgt 180  
 ggtgacaaca ttagtagttg atatggcctt actaatacag gccaacacat atgaggagct 240  
 accggagcaa gtgataggcg catctcgact ggcttatggg gaaccggcca catgagtagt 300  
 tcctgatctt aacaacacat taaatgacag tagcaac 337

<210> 41587  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E7

<400> 41587

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 cccacgtcac actggcgtga tggttggcat ggggcagaag gatgcgtatg ttggcgatga 180  
 ggctcagtcc aagaggggta tcctgacttt gaagtaccog atcgaacatg gcattgtcaa 240  
 caactgggat gatatggaga agatctggca ccacaccttc tataacgaac tccgtgttgc 300  
 gcctgaagag caccctgtgc tgctgaccga agccccactc aacccaaagg ctaacaggga 360  
 gaagatgacc caaatcatgt ttgagacttt caatgttccg gccatgtatg 410

<210> 41588  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E8

<400> 41588

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 aaatatatga ggtacttttg tcccttaatc atttcacccc aatataccat ggccagaatg 120  
 ttctttgaac ataacttgtt tcttgggtgg catgggttta caaaatttcc atagcaaa 178

<210> 41589  
 <211> 321  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3075-019-Q1-K1-E9

<400> 41589

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aatctgtcac tcttgcaacc caaactgcta agcacaagtg acagcagga atggtaaata 180  
ccatattgga gtatacacac ttcgaccaat tgcacaacgc gaggaatca cttctgatta 240  
caactgtgta actgacatca aacaagagca tgaagcatta ctctgacttt gtggaaatca 300  
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<210> 41590

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F1

<400> 41590

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aactcaaagg acaaggttaa aaagattgat gctgcaaac caatccccga ggtgtttgaa 180  
gacgtcaaag ccatttttgc cccatattct ctaaaggctg aatagagcaa tctaaggac 240  
atgataaagg tgatacatgg tgtctaggca ccacataaac atatctgtga ttatgatgga 300  
ccctttaata tagaacaaaa gttttggctc atttgagcta ccagcgtacc agtaggcaat 360  
tcgatttggt accagcaaca agtgatctg 389

<210> 41591

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F11

<400> 41591

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tgatggccca caggtctcat gttgacagca gcgttgagct cattggaagc cttctctttg 180  
gctccgagga cgggtccaagg gttctgaaag ccgtccgtgc acctggtgaa cctctgggtg 240  
atgattggag ctgcctcaag tccatagttc gcacttttga ggcgcgatgc gggtccttgg 300  
cgcagtatgg gatgaagcac atgcgatc 328

<210> 41592  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-019-Q1-K1-F6

<400> 41592

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caccgcagga gcgagatgga gatgaagagg atcctcttcg ccgtcctcgt cgtcatcgcc 180  
gcctcggcca ccgcagtgtt ggctccacc gagggccgcg ccgcgggggc cccaactgcc 240  
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gcctcggggc cctccgtcag cagcggcgcg cccgccctcg ccgcgcgcgc cgacgagctc 360  
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t 421

<210> 41593  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F8

<400> 41593

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ggggagctcg aggaccatcg ttgcgtcccc cctgctcctc ctcgccctcc tctcctggc 180  
tttcgcggcc accgccgagg cccgcgttgt ccccgagctg tttggcgagg accaattcca 240  
gcggacatgc aaccaggtgc acttcaggaa gatgtgccag agcttgacga ggctcccgag 300

ggtgacaacg ccgcgcgaac tgctgctagc gtcgatgcgc gtcgcggcgg agaaggccag 360  
ggaggccaag agccgggtgg acgagttcgc ggcg 394

<210> 41594  
<211> 251  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F9

<400> 41594

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cgagatggac cggctgatcc atgaacatgc ggacaggctc cggcgcgcgc tggccgacac 180  
tcgtcggcgg cactaccgat cgctggtcgg cgcggtgac gcggtgctg ctcaacgggt 240  
aaaggagaag g 251

<210> 41595  
<211> 364  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-019-Q1-K1-G1

<400> 41595

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gacgagcgtc gtcgtcgggtg ccaagcaacg gcagttgtcc ctgtccagag cacaggcaag 120  
atggttaacg cgatcaaggg gctgttcacg tcttgcgacg tacctatggc gcagttcatc 180  
gtcaacctga acgcgtcgat gccgccgtcg gagaggttca tcgtgcacat gctcgaccct 240  
accaacatgt tcgtgcaacc tcacgtggcg cacatgatca ggagcaagat cggngagttc 300  
agggaccaga acagctacta gaagccgcag tagtggagga tctaccgagt tctacactcc 360  
tacc 364

<210> 41596  
<211> 315  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G11

<400> 41596

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gccttcttcg gcgtcgggat gcgccatcg aagtggacgc agacgggtcaa gaagacgtac 120

aacctgctgc acaccacgag ccagcacacc gatccagggtg tacacgggga cattgacgac 180

aatcatgctc acgttcgact actccggcat gtggaacgtg cattacaaca tctagctgcg 240

gtactacctc tgcgtgcact tctacatgag cgtgatctca ctggggcaat cactgaacgt 300

ctagtacaac atgct 315

<210> 41597

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G12

<400> 41597

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ttgttttaaac cattcaacac aaagcattta aaggaacctc aatggaatca ctggacaaag 120

acttcattgg atatgctaag attgaccata gtctcgcaaa attctggact atcttttagc 180

aataacatga agattccaat tgtcaaattg aacatatgga acttaagcat tgaattcaaa 240

aactgggcct tgaatcgacc gatcaggata tcaaagatgt gtttcaagca tttgacatat 300

attaacaca 309

<210> 41598

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G2

<400> 41598

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gaaggcagtc gtcgcggcga cgatgcttct gctgggtgctg gtggccgcgg cgacggtggc 120

gagcgcagac caccgtgatg acgacggcca ccaccaccag cgccaccgcg gccagagctg 180  
gcaccgccac agcggcgggcg gccgagatgg ccgcccggctg acccctctgg cggggctgac 240  
gcagtgcgtg acaagctgcg ggtctggggt cacctcctgc atgctggact gctaccagcc 300  
gctggtcgac ctggaccccc tggagctgcc cgtctgcctc ctcaagtga ccaacgacgc 360  
catggtctgc gccaccgggt tgcccgtcac cgggaaacgtc tagcttgcta taactagccc 420  
atcattatat atatatatct 440

<210> 41599

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E4

<400> 41599

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tgaatgtttg gagaacaatg gtggttgctg gttagacaag gctaccaatg tttctgcgtg 180  
caaggatacc ttccgtgggc gtgtctgcga atgccctatt gtgaatgggt tgaagtttat 240  
cggatgatgg tacaaccact gtgaagcttc tggccttggg aggtgccaga tcaacaatgg 300  
gggctgctgg aatgagacta ggaacgggaa gagtgtgtct gctgctcaa accaagaagc 360  
taaaggctgc aagtgccag caagtttcaa gggcga 396

<210> 41600

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G3

<400> 41600

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gccagggccg ggagggcgct gcggaggtgg cgcgcatggg gctcgccggg gacgggtcgg 120  
cggacaccgc ccacctcagt aataatgaaa atgggcgggt catttatgga gttgcgagtt 180  
ctcctggtaa aagagcatcg atggaggact tctatgaggc aagaatagac gacgttgatg 240

gagagaaaat tggaatgttc ggtgtatatg atggtcatgg aggagtccga gcagctgagt 300  
atgttaagca gcaccttttc agcaatttaa tcaaacaccc aaagttcatc actgatacca 360  
aggctgctat cgccgaaact tacaacctta cagattcagg atttctgaaa gctgatagct 420  
gtcaaactcg aga 433

<210> 41601  
<211> 414  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-019-Q1-K1-C5  
<400> 41601

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ccgtgctgcg cgccgtcgcg gtgaggcttg gccacaaccg tggaactgtc tccatatggc 120  
gtaggcgcg taccgagctt cgccgtgatg atttgcagtc cagtggggccc ataatttctc 180  
gccggaccgc gagcagcaac aacctctact cgccggccat gacctctacg cactccaagc 240  
tctcctccga ggaccgtcat ctctgtgcat gtagtcgagt aaggtcacga ggatctgaag 300  
aatcaccttg gtatctggaa tctcaagtgc taggagaaga gcaggtgggt cagcaggagc 360  
cgcctaacac tgaggagtgc gatctgatct aggtggcggt tcccagtcga catt 414

<210> 41602  
<211> 196  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-019-Q1-K1-C8  
<400> 41602

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tagcggcatc ctaacaacaa cgacccatgg cgtatcatgc atcgaactgc caagtggcag 120  
cacccaaggg gttgcactca agtgagactt gcgatgccct tctagactcc tcgcaatcga 180  
tctgagccgc atctct 196

<210> 41603  
<211> 268  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C9

<400> 41603

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gcatgatcgc gggctccatc cttgatactc tcatcgccgc cttttcctac atgccccga 120  
aagtaccacc cttcacaaaa catcaccacc aacaacaacg gcaagtatct caccactaag 180  
cccacatga accgtcagac taaccatacc gtcgctcttg acaaccaccc tcacctgggt 240  
atcaagaacg ggaacctgcc accctaca 268

<210> 41604

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-019-Q1-K1-D1

<400> 41604

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gatgagccag ggcattgtac cgggcgactc ggactcggag ggcgaccagg gaaccgcgcg 120  
gcgtaggatg tcttttgtca tgggcgtttt caccactctt gctaaccgga agcggagaga 180  
ttcaataagg cagacgtgga tgccacaggg tgatcagttg cgaagattgg aagacaaggg 240  
cgttgttatc cgttttgttg ttggacgcag tgcanatcca aacctggaaa atgaggtcga 300  
ccatgcaatt gatatggagg atgaagaata cggtgatatt ttgagaattt atcatgtg 358

<210> 41605

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D10

<400> 41605

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aacatggacg tgtccctgtc caaggcgacg tcttccgggg acgagaacaa ctacgtgagc 120  
gtggccgccc cctacgagaa ggccgcgggc gccgtcatcg tggcgacgcc ggacaacaag 180

ctccgcgcta tggcggttcgc gttcgacggc gcggtggcgc cggacccgga ccggtgcccc 240  
gccgtcgaca agcccttctg cgagacctac gccaaagacgg agaaggcctt cagcggaacc 300  
atcgacttgc gtgacacgcg caagagcaag ctggtgatca c 341

<210> 41606  
<211> 387  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-019-Q1-K1-D2  
<400> 41606

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cgagcatggg agaccggcat cagcatgggc ctggcagcgg cgtggaggac ccggcgacgc 120  
tgctgcggcg ggtgcagacc cgcgcgcca actcgacgca ggtgggtggg ttcttgacgc 180  
tgctcgtctc tggcgccgtg ctgctgtgc tgacgggggt gacgctgacg ggcgccgcgg 240  
tggcgctcgt ctctctgggc cccatcggc tgctcaccag ccccatctgg gtgcccgctc 300  
ccgtcgagat ctccgncatc gtgcgcgcg cgtctcttcg ctgcgccttc ggcggcgctc 360  
tgctccccgt gggcacctgg atgtacc 387

<210> 41607  
<211> 416  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-019-Q1-K1-D4  
<400> 41607

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ctgtccgccc gctctctccc gcaggcgtg ggtaagggta ggggaggcag gggacacggc 120  
ggcgccgtca acccgaggt cgcggcatc tgctctcgca ccccgttccc ggaggtgtgc 180  
acgtccaccg acgggcggca cgcgtacaag taccgggtca tcgacaacct ggccgtgctg 240  
aacatgcagg tggacgcgtt cgccaagcgc accgcgcagg cgcgcaagca cgtcgcgagg 300  
tcggcccgcga ccatcccgcc gcagcagacg caggcgctca cgttctgcga caccatgtac 360



atgaacacgc aggacaccat cggcgcagcg cagcgggccca ttacgttcaa ggacac 416

<210> 41608  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D6

<400> 41608

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tattttcttt agagaatcat gttttcacca atctggagat tccaaaagga aggtgaaccc 120  
aacacactat cgagaaccaa ggttttatac caagggtatgt aaagagggcc attcatttga 180  
tcaagatgga gggtcgttg aactttctct agtgacctgt aaatgcattg gggcttatgt 240  
caaaaacaag aagaatcaaa accagatatg ctgggttatgg gaaaaggtaa aatcaacaga 300  
agacagagat tttcaaagat tcctggacaa cgtgcaatac aaaacaagtg ggatattacg 360  
ttatgagcgt gtctttggtg aacgttttgt gagcactggt ggaatcgaga ctacaaagga 420  
atttgtgg 428

<210> 41609  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E1

<400> 41609

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atcagaaaact gacagcgaag aatcagatgt gagtggttct gatggggaag atacttcgtg 180  
gatttcatgg ttctgtagct taaagggcaa tgaatttttc tgtgaggttg atgatgacta 240  
catacaagat gatttcaacc tctgtgggct aagcaaccaa gttccatatt atgactatgc 300  
acttgatctg atattagatg ttgaatcttc ccatgggtgat atgttgacag aagagcaaaa 360  
tgaacttatt gaatcagctg ctgagatgct ctatggattg attcatgttc ggtatattat 420

<210> 41610

<211> 115  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E10

<400> 41610

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tcgccttggt ttgagatctg taagcagttc ttttatccac aaacaagttg gtact 115

<210> 41611  
<211> 303  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E11

<400> 41611

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tccaacccgt accacaagtg cactgactac tgcctccgca ggatcgccga ggccagccag 180

ggccttacct acaagctcct caactcgtgg aaccgcccgc ccagagcacc gtaccgtcca 240

ccggaactgc ataaaccctt gcaaccctta ccacgagtgc tccgactact gctacaagcg 300

cat 303

<210> 41612  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E2

<400> 41612

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gcgacatcgt gctgatggaa atccaggaca agttgtcggc tgagtgggaag cccatgaagc 120

tctcttgggg cgccatctgg aggatggaca ctgccaaggc gctcaagggc cccttctcca 180

tccgcctcac cagcgagtcc ggcaagaagg tcatcgccaa agacgtcatc ccggcgaact 240

ggagacccga tgccgtctac acttccaacg tccaattcta ctagactttg aattcccttc 300

gattcatccg gcacagcggg ctatggacct tcagcagcaa gctaattaag ttggcagcat 360  
gcaccgctaa ccttatatac tactgagact tccaaattct agtatatgta atccttttg 419

<210> 41613  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E3

<400> 41613

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gtatgttgag gcagaaaagg agaaaactat tattggagca acaagagctt tacagtattg 180  
ttggaagacc caatgtatctt gtttatggtg agctaaggac cgctactgaa aatttttagtt 240  
ccaataacct tcttgggtgaa ggaggatatg ggtcagttta taagggtaaa ttagctgatg 300  
gaaaggtggt ggctgtaaaa cagttatctg aaacatctca tcagggaaaa cagcaatttg 360  
cagccgaaat agaaactatt tctcgagtgc aac 393

<210> 41614  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C4

<400> 41614

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ttcagaggac ctgtggccat taggggcgcg tctcagagcc aactacgaag aaacaaagca 180  
gcttctcctg caggtcgctg ggcacaagga ccttctggag ggcgacctgt acctgaagca 240  
gaggctgctg atccgtgact cgtacaccac ggcgctgaac gtttgccagg cctacacgct 300  
gaagcgcacg agggaccctg gcttccaggt gaagccgcgg cccacacctgt cgaaggacat 360  
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cccggggc 428

<210> 41615  
<211> 257  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B1

<400> 41615

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tcaaaacacc tggcctgtaa tagataatta ggtgaacttg ttcttattat gctactactc 120  
gtttcattat gccgtgaatc ctctttatgc taagctttat gtatattggt actgtatcat 180  
ttgggatcta ctattcaaaa aataataaaa agggcaaaaa agatcaataa aatgggatatc 240  
aagctgagtg tccatga 257

<210> 41616  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B10

<400> 41616

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gcccgaacccc ggcgttcgac agcccgccgc cggagacggt ggccaacaag gcaggcgggg 180  
ggccctgttg gagagagctc ctggagccgg gtgtcaggcg cgcgctcttc tgtggcgctca 240  
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tccttgacca ggccggtgtg agcgt 325

<210> 41617  
<211> 163  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B11

<400> 41617

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tggccaggca taatagagtg attctatcag atacgatgag aattatctac ttgtttgtac 120  
tggacgcttg cccacaagag ctcgagatta ccggttaatt aaa 163

<210> 41618  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B2

<400> 41618

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caccgaggcg gctgccccatg atgtcatgct gttcaccttc tccaaatgct ccggccatgc 180  
cgggtactagg ctgggggtggg cactggtgaa ggacactgag gtggccaaga agatgaccaa 240  
gttcatggag ctccaccaga ttggcgtgtc caaggactct cagcttcgtg ccgctaagat 300  
tcttggggcg atctgtaacg gctatgagca gctgccatcc cccgcggggc aaacaagaag 360  
ccacctcttc cattttgctc gggagaaaat ggcggcac 398

<210> 41619  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B3

<400> 41619

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caaggccggg tgtgccgaga tcaagaactc cccactcggc ataagcatcg aggagtgtct 180  
gaagagggtgc gaggggatcg cactgagca gggacctagg gacccttaca aggataacaa 240  
acttgatatc ccataaacac ttatgacttg ctgatatatt tgtgcctatc caatcatttg 300  
tgatagatca atgcatcttt gtgttaaaaa tagatagatc aatacatctg tatatatgct 360  
cactccgttc ttttttattt gtcggcgttt agttcagaaa tgaactagcg gacgacaaat 420  
attagag 427

<210> 41620  
 <211> 344  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B4

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 agcagcaagc taattaagtt ggcagcatgc accgctaacc ttatatacta ctgagacttc 180  
 caaattctag tatatgtaat ccttttggtc ggggttcatga tcgaattcca aagagtggaa 240  
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 tttcgatata tggaccacta aatatacata tcatttactt tcct 344

<210> 41621  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B5

<400> 41621

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 gtggatgggt tctcggtgg gctggtcgac gatagtaacg tattcgagtg gcaggtcacc 180  
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 ccagaaaatt acccaaacag cccgccatca gtcagattta cctctgaaat gtggcatcca 300  
 aatgtttatt cagatggggt ggtgtgtatc tctattcttc atccacctgg tgaagatcca 360  
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 ctgagc 426

<210> 41622  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-019-Q1-K1-B6

<400> 41622

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gacagggtga gctacgcagg tacaggagg accacccggt cgcgcagctc tccggctccg 180  
acaacatcat cgccttcacc acgtccaggt acaaggagca gccgctgac gtgcgggggtc 240  
cggtgtccgg cgcggagggt acagccggtg gcgtcttctg cgacattctg cggctggcgt 300  
cttacctcgg tgctccttct tgagcttcga gctacagggt ccagtttcag gaagcagtcg 360  
gagacacact gccatgcatg atgctnccc tacgtgtttg ggctatgctc acatgttgta 420  
at 422

<210> 41623  
<211> 422  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-019-Q1-K1-B7

<400> 41623

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ggtgcagcca agggagcatt gttcgcattt cctgtgcatt cagtagaaac ttccatgggt 180  
cttaagaaaa gaggtctggg atttaatgaa ctgggccggt gtagacttga gaatagaaat 240  
ctggtttagc ccgagattgc ttttgcggt gctattaaag catttgaaga ggtgtttgac 300  
cacacaaatg ttatactgat caactgtaac ttangtcag gtaggagagc tttagcagag 360  
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ca 422

<210> 41624  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B9

<400> 41624

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gttctacgat cccacctggc tggcgtactt ctccctcgac cgatcccctc aagcagcatg 180  
ctgtcgttct ccccaacacc atcgcgctca ccttgctatg gtctcacgct ccttggttga 240  
cgctcctgc cgcctctccc tggagtgtgc gcaccgcta tgctggtcag gttgtgagtc 300  
cccgcgtcga agcacacgct ctctccgctc cagctccaca gtccagcggg gcttggccac 360  
gttctcttcc tgetgatget cgcgcacgac ggatgttcga cggtttgccg agccaagtct 420  
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<210> 41625

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C1

<400> 41625

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ttctgcagta gttgatctcc agcgtctaga gatacttgcc ggaagctact tctgtgttgc 120  
tggagcgtc attggcatca taaatcctgg gaggatgact ttgtttggta cccttttgat 180  
tatctgggggt atggtgaaag aagcactatt tgggaagcca gtgaacagtg atctgactca 240  
atcaactcat gtctacccaa ccattttgat tgcacttate tgtgcattca tgtcgataac 300  
ttacaacgta aagaagacag caagaagtag tactcctggt tctatcgcta agccactgat 360  
aagttctgcc aagtcaaaac tgaagtagac ttacaagttt aatccttgta actcttttga 420  
aatatttatt 430

<210> 41626

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C10



<400> 41626

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atgaggagta cgacgtgatc gtgttgggga cggggctcaa ggagtgcac atcagcggcc 120  
tcctctccgt cgatggcctc aaggtcctta acatggacag gaatgactac tacggaggag 180  
aatcttcgtc cctgaatcta accaagctct ggaacagggt caagggcaac gacagccttc 240  
ccgagcacct gggcgtcagc aaagagtaca acgtcgacat ggtgcccaag ttcattgatgg 300  
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<210> 41627

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C11

<400> 41627

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caggggaggt ttaaaccatg aatgggacgt tactgattgt gaatgctttg actgcacct 120  
gtagcaacct gatagctctt ggccattagg cgccataccc atcatatggc aatacatact 180  
gatttgagtt ccaaaatgca cttgaaaaac ttacaagcta catattctac aagagctatc 240  
atatgataga ttatgatcta ccacaacgaa tcattgcata cttctataaa g 291

<210> 41628

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C12

<400> 41628

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gtgccaaagg accagctgct gcagccaccg aggggcctgc tgcgggagcg cccatgacat 120  
ggccggatgg cggacctgag ttcgtcaaga tggatcatca gaacccttc tttaaagcg 180  
caccttcac tggtagegaa gacggcctac ccattgaccc cactccagaa ggcagcatga 240  
actaaattaa ataccaatta cgagaccgac cagatatgca tggagcatgc aagaatgttg 300

tcgaacgaat atatgctatg aatggttaca tgtactggct acatttagtt caacttaaat 360  
tctct 365

<210> 41629  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C2

<400> 41629

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atcaggaaat ccgtttgctt catgttggtc aggtcatat ctgattgctg gattcggcaa 180  
accgcggttg gatcctgtat cgatctggag aaatcgcgaa gtcgtcgctg ttcggttcgg 240  
agcggatctg aggcgacgat agatggaggc ggcggcatct ctcggtctgc agtcctgctc 300  
cacctcgatg gatgatgtct ctgcgctgat aattattgga tcaatttcga taattattag 360  
tagatctatg agatatgccg cctggaagag gcgaagtaag ctgcagcatg taaaaaagag 420  
aaaaaaga 428

<210> 41630  
<211> 299  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A9

<400> 41630

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gcaccaccgg ctccagttag ctcaccacct tctatggcgc aatgacctcc accacctgct 120  
ccagtcagct cactatcagc acctgagaca tcacctcctt cagcgctcc agttagctca 180  
gcaccacctg ctgtgaaata ctcttgacca cctactacag gcaactaacc gtcaccacct 240  
gataaagtac ctctgcact agcttcaatg gttttaccat cgtgtaccat gaaataccc 299

<210> 41631  
<211> 397  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C3

<400> 41631

ctctaatacaa ttcttagagt tgtataactca ttggcctaga tgctcatttg aaactgccag 60  
ctataactta caatatccaa tacatgtaag aaaaggcaag tattggatat tgtaagttat 120  
agctggcagt ttcaaatact tgccctttct tacatgtatt tttcttacag gtcttcattg 180  
aagtagccct tetaactgat gtgtcactct tgatcaacaa gattttgaat gcttttgtaa 240  
cttgtttcaa accatgcttg ttcctttgat agccattagt caagatgtat ccttaatggg 300  
agtgaataga cccactcatc ttataaccta caaactcttt tggagcagag cgctccagta 360  
ttatcgcgga gctgaagcac ttgagtgata atatttt 397

<210> 41632

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H4

<400> 41632

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tcgccgaagc aagcaggcga gctcgggacc agatccactg cgggcagctg gagcggaagg 120  
gccatgggga cgccgcccgc tttccaggag tccggccact gcgacgtctg ccgctgcacc 180  
ttcaacacct tccgcccgcg tcactactgc cgcagctgcg gacggacgct ctgtcacgag 240  
cattcttcgt actacatggc tctcccgcag tatgggatat atacagacgt cagagtctgc 300  
tacggttgct tcaacaaatc cttcagccaa ggacacgctg ataatccggt gtcagctggg 360  
agcatttctg gagcagctga ctctttttca gggctgagtt tgggtaagga gga 413

<210> 41633

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-H6

<400> 41633

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 ggacgagatc tgcgaggtgc tgctgctcaa gagccccgag gcggactgcg ccgagatcga 120  
 gcgcacccgc gaccgctgcc gcgtcccgt caccgcgaac gacggcatca ggcagagcgg 180  
 catccgatac gccaacccca tcgccttctt ccgcaaggag cctctcagca actgtggcga 240  
 gtccttgcg gcttacgacc tcttcaacga gacgtccgag aattcctaag cgtcattttg 300  
 ttnttttttt ttaatttctt ctgccatagc acatttggtc gactgatcga cgttatatta 360  
 gcagacgtgc agctatccta aaaataaaaa taattttcat ctccaatggt ttagtagcta 420  
 ccatattaat atatatta 438

<210> 41634  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H7

<400> 41634

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 tggtgtcctc gtctctgtgc ccctctctgt cccaatcaaa ctgatcgatc cgtcgctgcg 120  
 agggccacag cagccgcggc gaggtcgtcc gtcggattcg gaagctcagt tattactgaa 180  
 aagataatac agtacctatg gcttctctgg acgccgtgcg aggagacctc gccctgctga 240  
 ttctgtacct gaacaaggcc gaggcgcggg acaagatctg ccgagcgatc cagtacgggt 300  
 ccaagttcat cagcaacggc gag 323

<210> 41635  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H8

<400> 41635

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 aagccctgcc tcccctgtac tgattctgaa agtggacttc catctgcacg tcggttgatc 120  
 tattctactt tgctgagttg gactacatta cctccatgtc gagactgcga gctctgtggc 180

aagcttttctt taacgccaca aagagagctc tcgtatggac ttcagatcat ctaattccga 240  
 caagtgaag atgtatcttc aatttcaaca cagaagatga gctgacaaag cggcatttgt 300  
 actcagattc 310

<210> 41636  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A1

<400> 41636

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 tgtctccgtg gaggtgtctc ctagggtggc aaatgacact caaggaactg ttgaggcggc 120  
 aaagtgggta cacaaagtgg tcaaccgccc caatgtctac ataaagatcc ctgctaccgc 180  
 cgaatgtgtt ccttccatcc gggaagttat cgctaattggc attagcgtca acgtcacgct 240  
 tattttctct attgcgacat acgaggctgt gattgatgct taccttgatg ggctagaggc 300  
 tttcgggctt gagcgactta tctcgagtta ccagtgtcgc atccttcttt 350

<210> 41637  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A2

<400> 41637

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 caagatgaaa gacgggtaca gcaatgcgcc tgacttgag gacctgttct taatgctcaa 120  
 tgtgggttca gcttgactt ggacactgta caccagggtc cggatacagt acgaagctca 180  
 catccgctat gactccacat gtagccgata acagtatctg gatcatgata gccgctccga 240  
 cttccatgac taccataact acgtgatgaa taaaaagata tgggtgatact gctaagcatg 300  
 aggacacatg gactggccag tccac 325

<210> 41638  
 <211> 287

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-019-Q1-K1-A3  
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 agttcatcga caagcacaaac atcgactacg tcgctcacga cgcgctccca tatgctgaca 180  
 cgagtggagc tgccaacgat gtctacgaat tcgtgaaatc cattgggaag ttcaaggaga 240  
 cgaagcgcac cgagggcatc tcgacgtcgg acatcatcat gaggatc 287

<210> 41639  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-019-Q1-K1-A4  
 <400> 41639  
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 acctcctcca ccccgagggc cgtcaacctg ctctgctctg ccaagatccc atgcaccggc 120  
 gtcaccatgg acgacgtcaa catcaagtac agtggcacca acaacaagac catggccgta 180  
 tgcaagaacg ctaagggcag cgccaagggt tgccctcaagg agctcgcgatg cttctagaac 240  
 caccatcgac ccattctctt agttatacaa tgtgtttggt tggtggatgc tgagagattg 300  
 gttctcagct cagatgcaag ctgcgcctag cctgtgtagg tttgtgctgg tacattgaga 360  
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<210> 41640  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-019-Q1-K1-A5  
 <400> 41640  
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 ttctccttc ggatctcgca ttcagcgcag cgcagggtgtg aaggaagggg gacgcggagg 120

aagatggggc tcgcgttcgg gaagctcttc agccggctct tcgccaagaa ggagatgcgg 180  
 atcctcatgg tcggcctega cgccgccggt aaaaccacca tcctctacaa gctcaagctc 240  
 ggcgagatcg tcaccaccat cccaccatc ggtttcaatg ttgaaactgt tgagtacaag 300  
 aacattagct tcactgtctg gcatgtcggc ggtcaggaca agatcagacc tcttggag 358

<210> 41641  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A6

<400> 41641

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 acaaagcaaa ggccttcttc ccggcgattt tgctttggct cttctctctc acgccataag 120  
 atatctagca attggctact cgccttaatt agttcgcttt gcttttgagg ttgattcgac 180  
 cattttgctg taacgtgaat tgcattgcatt gacatgcaac gctccaatgg cctttggaat 240  
 gtggaatttt tttccccatt ttatgtattt ttcctataaa aaatgaactg gttcttatat 300  
 aattcctctc agatccctgc tgttcaaatg atatgaaagc agatactata ttctgtgctg 360  
 ataaaaaaaa aagcgtggaa tta 383

<210> 41642  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A7

<400> 41642

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 gttaaattgg atccattctg ctttagtgca atgtgcaagg caagttgttt tatagaggga 180  
 aaatcctccg atgggttcta tgtaaagggg cacagatgtg aatcaaatgg atatcatgct 240  
 gtgtgtgttt gctttctgtg taaaaattag gtatctaatt acatgcgaat ctatcttctt 300  
 ttgatcctct ccgacatcta ggagtgttgt ctaaataatt atatggtaaa atagttaact 360

agtatgtata ctattagagt tatgtagcac tagttaacta gtcggtatatt cttca 415

<210> 41643  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H2

<400> 41643

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tggcatgact cacattgtcc gtgaggttga gaagccagga tccaaactcc ataagaagga 120  
aacttgtgag gctgttacca tcattgaaac cctcctctt gtcattgttg ggctcgtggc 180  
atatgtgaag actcctcgtg gcctccgcac actcaactct gtttgggccc aacatcttag 240  
cgaagaagtg aggagaaggt tctacaagaa ctggtgcaag agcaagaaga aggctttcac 300  
aaagtatgct ctcaaatatg aaaatgatgc tggcaagaaa gaaattcagc tgcagcttga 360  
gaagatgaag aaatatgctt ctggttatccg tgtcattgct catacccaga 410

<210> 41644  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F6

<400> 41644

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ggttcatcca tttgcagatt gaaagccaag atatgcctgg gcttagcttc aaaacacacc 180  
caaatatcaa taaggatttg tttacagtc agcaaatttt gggagcaaaa gatccaaaca 240  
ggccctttcc gagtgggtcaa aatgaaactc ctctggtgaa atggagaatc caggggatgg 300  
atgagtcgtc tttacctctg tcagtcaatt gctggccgtc agtatctgga aatgaaacct 360  
atgtgaacat tgaatatgaa gcttctgaga tgtttgatct gcacaacgtt gtcatatcta 420  
ta 422



<210> 41645  
<211> 186  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F7

<400> 41645

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gatcctataa actttgacct ggaaacact cttattatta aacctcttac tcatactcat 120  
agcactatct actttcacca ataaatccaa cacatcccat ttctaacctt ctcaacacac 180  
tcaaatt 186

<210> 41646  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F8

<400> 41646

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taacctactt acctgcaact aacaaaaggt cacctatata tcaggaaaaa agaaagcaaa 180  
gcctgtagtg tgtcgctaata ctataccatg gagcaaaagg acattgcagt atgcctgcca 240  
cttaattgtg ctgcgtataa actatccaac gtattagggtc gtgctgtaaa caatgtagaa 300  
ctgtacctgc tggacgggta ccatgtatat aaagatgaag tgtttaactg atgtgaagat 360  
tgatggatat agtacgtcct ctctttgcca taagcgtggt gcaaatagtg cttttgcaat 420  
atatcccaat ggaca 435

<210> 41647  
<211> 166  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F9

<400> 41647

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gcgtgggtat ttgtaccatt gcgacatcac actgctagcc atgttctgta tcctgttgtg 120  
 tggtaactgg gaaacattaa atattgacat accgttttga tttttt 166

<210> 41648  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G1

<400> 41648

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 gtgctggtgg gtcctgagcg ccgtgtcctc atcagcggct acgggtacgg actttccccg 180  
 cagccccgc ccccgccgtc gccggcagag agccagctgc tcggtcgcct cgatcacatc 240  
 gatctacggc tgccgcagct ggaggagcag catcagcgcc gtccgttgca cgccgacccg 300  
 gtcccgggtca cggccctacg agcgccggcg gcgcaggacc agcaca 346

<210> 41649  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G11

<400> 41649

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 ttgattagct caatagccag aaacacagaa ggccaacaag cagtacaagc cgttgacgca 180  
 ccagatggcc cttccaaaat ggctaattga aatgataaga atcatgattc tcatatcgaa 240  
 gtgacacccc atgagttggg tttgaagaga tcgagaacaa atggagctac agcgggaaat 300  
 ccatgatgag cgaattattc tgaaaggatc aaatcagtcg agccttaaca 350

<210> 41650  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G12

<400> 41650

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ggtcgaatac ttctttggca aggatgggaa tgaacatcta cactatgata agttctctag 180  
ttttttgaag aaattgcatg atgagattgt ccgcttggag tttagtact acgatgtgaa 240  
atcatccaac acaatacctg ttaaggactt tgcgttatcc atggttgctt ctgctgatat 300  
gatttacata gacaagttac tggatagagt tgaggatttg gacgacaatc ttgacctcaa 360  
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<210> 41651

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G2

<400> 41651

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ataactgaga agttttcagt tgctgcaggc gctcgaagca tcactactga ttacgcgaag 120  
ctagattgtg taacatcaat cttaatgggt cttttatcta ggaaccaatc cttggctttt 180  
tggaaggctt tccttctgt ggtctacaat atatttaatg ttcattggtgc aacactaatg 240  
gcaagggaga atgaccgctt cttgaagcaa attgcttttc atcttttgcg gcttgctgtt 300  
ttccgaaacg attcgattag aaaaagagct gttgttgggc tgcagattct tgtaggaac 360  
tcattcaact atttcaaaaa cactacaagg ttaaggggtca tggtgacaat tactttgtcc 420  
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<210> 41652

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G4

<400> 41652

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 taattggatc gagattctac gcgtggataa cctgggtcatc accggcaagg gaaaccttga 180  
 cgggcagggc ccagctgtgt ggagcaagaa ctctgcacc aagaagtacg actgcaagat 240  
 ccttcccaac tcgctggtga tggacttcgt gaacaacggg gaggtgtccg gggtcacgct 300  
 gctcaactcc aagttcttcc acatgaacat gtaccggtgc aaggacatgc tgatcaagga 360  
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<210> 41653

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G5

<400> 41653

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 tcagccatca gggtgcccac ctgagctctgt tattagtagg aggaggtttg agttcatgag 120  
 aaagagggcc tttgaccagg aaagctcttc cagatcagtg aacttaagct taggtcattc 180  
 aactcctaca gatattcgca gaatcagaat gaatgaacaa tcactttgtc aacaaatacc 240  
 acgaagcagc agcagaagcc atcaggaatc ggcaggttca gttaggacaa gacgaccttc 300  
 tcctcatgcc actaggatga gtgttctga tggaagagca gatggcgtgc tttctctgca 360  
 cgagt 365

<210> 41654

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G6

<400> 41654

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 gctgataaat ttcagttgat gcaactagct aactagatgc aatactgatt acacgtatac 120  
 tggatcgagg cacatcaacc ttaatgggcc tcttatgtac gaaccaatgc ttgacttatt 180

ggaacgctat ggttctctgtg gtctaaacta tatttaatgg aaatcgtgca acactcatag 240  
 ctaaggagaa tgaccgctta ttgaagcata ttgattttca tcttttgca ataggctgtt 300  
 tccgaaacga tttgattaga aaaagaactg ttgatgggct acagattctt cgtatgaact 360  
 cattcaacta ttgcaaaaac actacaaggt 390

<210> 41655  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G7

<400> 41655

ggcggccgag gtcaccaagg cctgcagcgt cacctgcgcc aaggagaaga acccgcgct 60  
 cagcgagaac tgcaagaggt cctgcacccc tctctcttct tgaagcgaag ccccttgaaa 120  
 tgaatgaacc atgcatgcat gcatgtatgc atgcgccggg gtgacgtggc gttcagctca 180  
 ggcgctgagc gagtctatac gtacgtcgtc accggtggc cacgcatgcg ataaccatct 240  
 gatatggagc gaactatata ttgtattcct attaactctg cattttctaa gctaattgtt 300  
 ttttttccaa atataccgtc gatggaactc caaatgtaat gtcacgcaa tgtgtgtttt 360  
 tcatcgattg aatggattat aataaaaagc atgctggcag gtactact 408

<210> 41656  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-G8

<400> 41656

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 ctctgtggcca cggccatagc cgccgctccc ggcgttgggt ttgtcgtcac cggccgcatc 120  
 tactgcgaca actgccgcgc cgggttcgag aaaaacgtgt cccacgccat ccaaggcgcg 180  
 acggtggaga tggagtgccg nacttcgag tcgcagcaag tccacgaaa ggcggaagcg 240  
 acgacggggc cgggcggctg gtacaagatg gagatc 276

<210> 41657  
 <211> 58  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G9

<400> 41657

gtggactgtā gagagcacac gatttacatg tacagaaccg ttgcttcctg attgcttt 58

<210> 41658  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H1

<400> 41658

actgaacagc agtccgagac gccatgaacg tggaggagga ggtcgggagg ctcaaggagg 60  
 agatccatag gctcggccag cagcagcccg atggctctta caaggtcaag tttggcgctc 120  
 tcttcaacga cgaccggtgt gcaaatatct ttgaagcact agttggcacc ttgagggccg 180  
 ccaagaagag gaagatcttg acctacgaag gcgagctgct tctgcaaggt gtccatgaca 240  
 acgtggagat aaccctgttg cccccacctg cagttgctgc cgcttgaagc gaagagcacc 300  
 accaagttct cgattccata caactcgtat gct 333

<210> 41659  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H10

<400> 41659

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 gccgccgctt ctcgaatggc ctcaacctcc tctcctcgc ctcagccgcc gccggcgggc 120  
 gcggcagcgt cgcccggggc agcttctcgc cccgaggatc gccgcgcagg tggaggccgc 180  
 ggccggccgc ccccggtccc gccctatgtc aaggcgggcg cggggtccct gggcggcgtc 240  
 atggaggcgt gctgcctgca gccgatcgac gtcgtcaaga cgcggctgca gctcgaccgc 300

acggtggcct accggggcat cgcgcactgc ggcgccaccg tggcccgcgc cgagggcgctg 360  
cgcgcgctct 370

<210> 41660  
<211> 310  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F5

<400> 41660

aaaaaaaaa aaaaataaaa aaaatatttatt ataaaaaaaaa aaaaaaaaaa ataaaaaaagc 60  
aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaaataa aaaaaaaaca 120  
acaaaaaaaaa cgggcagtc caaaacattt caccacaactt taacaaagaa ttcttttaac 180  
tctaaactta catattattg aaaaccaaatt taaattcatt ccataacaa aaataacaga 240  
tatacataca aaaactctaa caaacccac ttttaataaca ttgactcatt caggaacatt 300  
cccattttta 310

<210> 41661  
<211> 265  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H12

<400> 41661

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ccaccgcgct cgccgccacg gcgtcggctt cgcgtcttct ccggaggtct atatcctctg 120  
cattcctcgc gaggcgcgcg gtccctaaca ttccgggtac aactctctgg tattccttct 180  
tcgcattccg cagacttaaa ccaacgccgg cctgtcttc gcctgacacc ttcggcaatg 240  
attgaagccg ccggaattagg tggga 265

<210> 41662  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E1

<400> 41662

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tcgcgccgag gtcgccaaac tcagccagat cagcgagaac gagaaggccg ggttcatcag 120  
cctcgtgtca cgctacctca gtggggaggc ggagcagatc gagtggagca agatccagac 180  
cccgaaccgat gaggtagtagg tgccgtacga taccctcacg tcgctcctg aagatctoga 240  
ggagacgaag aagctgctgg acaagctcgt tgtgctcaag ctcaacggag ggctcgggac 300  
gaccatgggc tgcaccggac ccaagtctgt cattgaagtc cgcaatgggt tcacattc 358

<210> 41663

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E10

<400> 41663

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aaaggaaccc tagccatgag cgccgcctcc aagaagctct tccaggccgc caggctccctc 120  
gtcctctccg cttctaaccg ctccgtcctc gccgtcaatg gccgtaccga cgcgctcgcc 180  
acgctcacca actttggcag gaagaccctt cccaccgact acttatccta ccacaagcag 240  
ggatcccacc atgccgcgtc ggcgtgggtga gccatcgccg tagcagtcctc agctgcagtt 300  
tacatgctcc 310

<210> 41664

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E11

<400> 41664

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gtctccaaga tccactacga gaatatcaag atggaggact cagccaaccc catcttcac 120  
gacatgaagt actgccccaa caagttgtgt actgccaacg gcgcctccaa ggtaaccgtc 180  
aaggatgtca ctttaagaa catcaccggc acctctcca ccccgaggc cgtagcctg 240



ctctgcactg ccaagggtccc atgcaccggc gtcaccatgg atgacgtcaa cgtcgagtat 300  
 agcggcacca acaacaagac catggctata tgcacgaacg ccaagggcag caccaaggggt 360  
 tgcctcaagg agcttgcattg cttctagacc cttcatcgac tgacccatct ctctagttat 420  
 aattttttctc tc 432

<210> 41665

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E12

<400> 41665

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 tgcattgtga tgatgttgct ggttccaact tcgttttcag taataataac aacaaagcga 120  
 agaccctcct acctacccta tttgcttgag cggtctttgt ccgcgccaca agataccaat 180  
 tgttgcgctg ggaatattca gttacgatga cccgcttttag ttcagctttt tttttggggg 240  
 ggttggttcc atcatttggc tgtagcgtga atcgcatgga caacagactc caattactaa 300  
 gcaaataattt ttctttctgc 319

<210> 41666

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E2

<400> 41666

cccagaagaa gcaagagaag gaagaggagg aggaaaagct aattctgcag aaggctaagg 60  
 agttggatgc ctttgatcag cagaatcatg gggctgttcc ccagtaccat gatcgcatg 120  
 gttcccaagg caagaatggg tttcatggag cgaacagtgt gaaggtcact tcttttgaag 180  
 aggaagccct ccgtaacatg aaggcattct ggcttccttc agctactcct gaagctacgg 240  
 tcaaggtaga tgcaccctcc gccgacactg tctgccctga ggggcaggag aagctcaagt 300  
 tgaaatcgct cttccctatc tcatttatgg aagaaactgc tgatccgaag aggaagaagg 360  
 caatggaaaa gagctatatg tgccttagtt gcaaattcac tctcaciaat acaatgtccc 420

tcgtggcggt c

431

<210> 41667  
<211> 268  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E8

<400> 41667

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acaactgtgg gctgctgtgt aaaaatacct aaccctaacy atgggtttatt atgatgtaca 120  
atcatcgaaa gatataccac ctggagatcc caacaagcgt gcatttgctt actatgtcct 180  
gagtgggtgg agggtcatat atgcatcact gttgcgtctc ctctcattga agattgtcct 240  
tagcatgtta tcaagtaatg acattctt 268

<210> 41668  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F10

<400> 41668

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tgaataccca tgatgacca cagaagatcg ttgagaagtt ttccaactcc aacattgaaa 120  
ttaatccttt caatcagagc cagtatcctc gaattgttac cgaggacttt tggccacttc 180  
caagcaaagg gaaatctgga aaggatggct ggtatcctcc aggccatggt gatgtgttcc 240  
cctctttgaa taacagtgga aaactcgaca tcttatgggc tcagggcaag gagtatgtct 300  
tcgttgctaa ctcagacaac tgggggtgcta tagtcgacat caagatcctg aac 353

<210> 41669  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F11

<400> 41669

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acagtgcgca gctgcagcag caccgccccca ccggcaccgt tgagcaggtg gcgcagacgg 120  
gccagggcgt ggcggcaggc gtcaaggaca cgggtggcggg cgcggcgggtt ggcgtcacga 180  
acacggtggc gggcggtggcg gcggggcgta cgaacacggt cacgggcgcc gtggcgggcg 240  
tcacgaacac ggtgaccggc gcggggcgctg gtgtcaagga caccgtgacc ggcgggcact 300  
gatcgacgac ccaagaatgc ttcattga 328

<210> 41670  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-018-Q1-K1-F2

<400> 41670

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ctgctgtgaa gaatcctaac cctaagggtg tttatgatga gtacaatcat gaaagatatc 120  
ctcctggaga tcccagcaag cgtgcatttg cttactttgt cctgagtggg gggaggttca 180  
tatatgcac actgttgctg ctctcgtat tgaagtttgt cctgagcatg tcagcaagta 240  
aggacgtgct tgcccttgct tcaactcgagg tggacctctc cagcattgag ccaaggacca 300  
cgggtgactgt gaaatggcgt ggaaagccag tcttcatcag acgccggacg gacgacgaca 360  
tcaagcttgc caacagtgtg gatgtggcat ccctgcgcca ccagagcag gatgcanagc 420  
gtgtgaagaa t 431

<210> 41671  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D9

<400> 41671

cggacgcgtg ggcgcgaagg cacctagcag ccgccactcg ccgaactgag gaacacgcct 60  
ggcgacggga tacagcagca gcgcgcccct ctatccccga cgcgacggcg ccctgcagct 120  
gcagataaac ctgttccaat gggcaaacaa aaagaggggtg tggacaaaag aactgctagg 180

aagatgatcc gatctacgga aggctgtgca aagagcatta ctttcgagag gaacaacaaa 240  
tcagacgatg tgcagcttca cgatctgccg aatgacatcc tacgtagcat actatcacgg 300  
ttgacattca gagaatcctc acagatgggc cttgcttctc at 342

<210> 41672  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F3

<400> 41672

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cggggtccca ggttccttgg cctgggtaac cattatttta ttaagccttg tgcccaaatt 120  
ggacgcaagg acttccgggc ggaattcctt gagccgagcc aatttggata ccggttggcc 180  
acatagatat ccgaggacac cacacccaag gggccgagcc aaagtgatac ggagacaaat 240  
ctcccgccgg tggt 254

<210> 41673  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F4

<400> 41673

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tcatcaccga ccgggagacg gggaggtctc gcggcttcgg cttcgttacc ttctcctccg 120  
agaactccat gctcgacgct atcgagaaca tgaacggcaa ggagctcgac ggccgtaaca 180  
tcaccgttaa ccaggcccag tcccggtggc gtggcggtgg cggcggtggc tacggcgggc 240  
gtcgcggcgg cggcggttat ggtggcgggc gccgtgacgg cggttatggc ggcagtggcg 300  
gctacggcgg tcggcgcgag ggtggtggcg gcggctacgg aggcggtggc ggctacggcg 360  
gtcggcgcgga ggggtggtggt ggcggctacg gcggcgcgcg cggcggtctg agggactgat 420  
gtgt 424

<210> 41674  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C4

<400> 41674

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catctgaaaa gttgagaacg acagttcctg agcacagggc gcgatggacg tcccggccgt 120  
ggcggaccct ggaacggagc gaggcgaagg cgcgctgac cagtgcccg actgcgactc 180  
ggaggcgatg cacaagctgg cgcagatcct cctccccggc ctgcccgcg tctgctgga 240  
cggcaccacg ggggaccctg tccgcagccc gtccgcggtg gccgtggacc tccgcaagga 300  
gatggtggac tacatcacgc agcggagcga cagcttcac cgcggacgcg tgatcgagtc 360  
ggaggcgaac caggacgcgc ccggggccga ggtgcccga gaccct 407

<210> 41675  
<211> 350  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-018-Q1-K1-C5

<400> 41675

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ctctcacct gtccactcgg acgccccca ccagaccgaa accctcgtt tcgacgagat 180  
ccagctgtcg ccggagaagc cggctaccgn cactgccttc gtctgcacg gnctcctcgg 240  
ttccggccgc aactggcgct ctttctctcg cgccctcgtc tccgaactcc gtaaccgatc 300  
cccttcagac gagtggagga tggttctcgt ggacttgagg aacctggca 350

<210> 41676  
<211> 351  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C6

<400> 41676

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gggcacaggt tgcgatggct gtggtgttgg tgttcttggg gagcggcgca tgggtgcggtc 120  
ctcccaaagt cccccaggc aagaacatca cggccaccta tggcaaggac tggctggacg 180  
ctaaagcgac atggtatggc aagccgactg gtgccgggtcc cgacgacaac tgtggtggct 240  
gcggttaciaa ggacgtgaac aagccccct tcaatagcat gggcgcatgc agcaacatcc 300  
ccatcttcaa agatggtctg ggtctgaggt cctgcttcaa gatcaagtgc g 351

<210> 41677

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C7

<400> 41677

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gtgcttgcyt gattggtttt ctctctcttt tttggttaaa taatgtaaac aatgcatacc 120  
ggcgatggtt taacatggta actgagaatg tggactctt tctc 164

<210> 41678

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C8

<400> 41678

gcgcgaggtg cggcgccctcc accggctcgt cggaaacgcc gtggtcgatg gataccatgt 60  
gatcgtcggg actgggtcca cgcagctgtt ccaggccgtg ctatacgca tctcgctgc 120  
aagtgcggc acgcccacg acgtcgtctc gccggcgcc tactactcgt gttaccacgt 180  
tgcgtcgagc tttctaaact ctgggtctta ccgttggggg ggtgacgcca atacatttgc 240  
cggcgacgac accagctgtg ttgaggtcgt ctgctcgcca aacaaccctg acggtggcat 300  
ccgacatgcc gtcgtcaagt ccaaaccag caaggcgatc tatgacttcg cctactactg 360  
gccgcagtac acgcccacca ccgaggcggc ttgccatgat gtcatgct 408

<210> 41679  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-018-Q1-K1-D1

<400> 41679

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agagctgcga ggacgcgtgg aagggcgagg aggaggatgt ccccgtcgcc gcgcacgaca 120
gggagtacgg tcggatggcg cacatgcctt tcggattcac acaccacgcc gccgtcgccg 180
ccgccgccgc atgaatcgat taattattat atatatatat gcatgctatc tactatgatc 240
gatcgcttct cgaccttctt gcatcgatct gcatgcatat tataacttat attatattga 300
tgccacgccg catgcaggtc tttccaaggc gtacgtacta tatcaaatta tnttaatgtc 360
cttacatgta tatgtatgtg ctgctgatgg atacgtacgt atatatatat 410
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<210> 41680  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D10

<400> 41680

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gtcagggtca aggacgggca caagatgccc gatgcgcgcg acgaggacag gcagggcctg 60
gtcctcaact gcctagaggc gccgcttgac gtcgacatca agaacggagg gcgcgtcgctg 120
gtcctcaaca cccagaacct gccgctcgtc aaggaggctg ggctcggtgc tgaccttgctc 180
aggatcgacg cccactccat gtgctcgccc ggcttctcct gcgactccgc ctaccaggtc 240
acctacatcg tgcgcggcag tggccgcgtc caggttggtg ggatcgacgg cacgcgagtg 300
ctcgagaccc gcgccgaggg aagctgcctc ttcacgtgctc 340
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<210> 41681  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-D11

<400> 41681

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acaccggggg gagaagaatt gcgggcgacc ataactcggc aagaagcggc tccaaaaagg 180  
gcatctacct ttgccgattc cggcaccgat ggataccgcg gcgtcgggga ggttcgacaa 240  
gctccagagc tcgttcaagc tctccatcca gtgcctcctc acggcctgct cccgcgagga 300  
tgtcaatgac gctttctcgt ccttcactga tgctgagaag gagcgtttgc accggatgct 360  
cacccttggtg atgaagaatc tgcattgcaa cgtantggat gagtttgacg actttctgcc 420  
agaaacac 428

<210> 41682

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D12

<400> 41682

cccacgcgtc cgcggacgcg tgggaagaaa tatgaaactg cccagttcca gtaagtttag 60  
ctctagatct ctagaagaaa aacaaaatca gtgcacagct gcctgctcaa atgatgcaac 120  
acaaaataaa ggtggtttga gggaaagctt gtgggtaact cggcttttgc caaaagcatc 180  
agtagaattg atggaggcaa caccatgcaa ttagagagaat gctgttagtc cacaggctgt 240  
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<210> 41683

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D2

<400> 41683

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agcattggat gatcctctaa caagtgttgt accatgctgg gtgcgccagg aagacgatcc 120  
 ggaaggctag tacctggaca tgctggattg tggatcatgac tgtgaaacag catgtgtcaa 180  
 acaatggctg gttataacag acctgtgctg aatttgcaag aatacaggac tggacaccta 240  
 gaaacattga tgcctttacc cttatgaata agcctaccga ctctgggcaa gtaggttaca 300  
 tgtaacatac acgctgccat gactagcata gtatgttaca gctttcccat gatcatcata 360  
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<210> 41684

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D4

<400> 41684

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 gcagcgtacg ggaccgcgaa gagcggcgtc ggcgtggcgt cgatgggtgt gatgcggccg 180  
 gagctcgtca tgaagtccat cgtgcccgtg gtcatggctg gtgtgctcgg tatctacggg 240  
 ctcatcatcg ccgtcatcat cagcactggg atcaacccca aggccaagcc ctactacctt 300  
 tttgatggct acgctcacct ttcgtccggg cttgcctgtg gccttgctgg gcttgcagct 360  
 ggcatggcca tcggcattgt tggatgatgt ggagtcaggg cgaatgcaca acagccgaag 420  
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<210> 41685

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-D5

<400> 41685

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 gtcggccctg ctctgggact tcttcgacaa gtgccaaagc gacccgagcc actggagcaa 180

gatctcccaa ggcgggcttc agcgtatcga ggagaagtac acctggaagc tctactcgga 240  
gaggcttatg acccttaccg gcgtgtacgg gttctggaag tacgtgtcca acctgtagag 300  
gcgcgagacc cggcgggtacc tggagatgct gtacgcgctc aagtaccgna ccatggccag 360  
cacctg 367

<210> 41686  
<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-018-Q1-K1-D6

<400> 41686

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agatgtttct gcgacggatc ctgaccggcg gaggtggcct ggcgggcgctg agggcgggcg 120  
gcgccgtgaa ggagacgacg gggatcgctg gccttgaggt ggcgcccaac gcgcgggagg 180  
ttctcatcgg gctctacacg cgtacgctca aggagatcga ggccgtcccc aaagacgagg 240  
gctaccgcaa ggccgttgag tccttcacca atcaccgnct tcagatctgc caagaggaag 300  
acgactggaa gcgcatcgag gaccgaatcg gatgcgggca agtcgaagag ctcatcgagg 360  
aggccgagga cgagctcaag ctcatcgcca aaatgattga atgggatccg tggngtgtcc 420  
ctgatgacta cgaatgtga 439

<210> 41687  
<211> 375  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-018-Q1-K1-C3

<400> 41687

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tgccaagacg taaaggaggc cccgagcagt gacattttgg gaaatgatga aaattcagac 120  
accgagaaga ctctgctgc cttgcatgga cggctgaaca ccgaacttgc tcctagtggc 180  
agaaatacag aatttagtga agctgacact ggagaacaag agacaccgt gtctgctgag 240

gctatggtag aatcatcgag cgagcctcgc agccatgagg canaggaagc tncaaccccc 300  
 tgacctgtcn tgggatgatg aaaaagcgaa gtcagcaagg gctgctgnnt gtgcggaact 360  
 ttttggagat gcaac 375

<210> 41688  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D7

<400> 41688

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 atcgtgcatg gtgagaagga agagtcaaag ggcacgatg cgaaagcgtc cgggcctggt 120  
 gggtccttcg acatcaccaa gttgggcgcc tccggcaatg gcaagacaga cagcacgaag 180  
 gctgtgcagg aggcattggc atcggcgtgc ggcggcactg ggaagcagac aatcctcata 240  
 cccaagggcg acttccttgt cggacaactc aacttcacag gcccttgcaa gggcgacgtg 300  
 accatccagg tggatggcaa tctgctggcg accacggacc taagccagta caaggacat 360  
 ggtaattgga tcgagattct acgcgtggat aacc 394

<210> 41689  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D8

<400> 41689

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 aagaacactc tcacaaatgg gattgttaac gtatcatgca ctacgtagg tcggatgcca 120  
 ctctgaaaa ggcacgatcg gactttcagg ttggcggatc ctgctcctga gcattgacca 180  
 cccggagagt ttgtccggga catccactc cctacccgaa tccctgaaga ctccactctg 240  
 gaagcgtact gcgatgaaac aggcacagtg ctgtagatca ttgtcccga gtttcgcgtt 300  
 ggccctgaag aacacgaagt gcatgtgtac atgaggtcac cctcgtactg gtgccaatga 360  
 aacctgtttc caagcttgcg ctaggagaca cgcatacggg gtggagctat gccgtaaggc 420

taaagctact gcacaac

437

<210> 41690

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A6

<400> 41690

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ccggccgcct tcctccagaa agtatcacc gtggtcccgt gcgccgaat cacctcttaa 120

tttcgttctt agccgctgcy tttcacagag gtcgcgacat gccacctcg gcggtctctc 180

ctgcccagcc cgcggcaccg cccctctctc ctctctccgc ttctctgccc cctccggagg 240

atgtggaggg gactgccggt tcaccttcga gggcttcagc agtggggacg gtgaactggg 300

gaacggtcac cctcgttggc gtcttcgctg ggctgctata cggcgggaag ca 352

<210> 41691

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A9

<400> 41691

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ttcctggtga tcccttagat aagagtattg tccttcgccc tctggagcca gcacctatgc 120

agcaccttgc ccgtgagttc atggtaaaga ccaggcgaag gaagggcatg agtgaagatg 180

tgagcatcaa taaattcttc gacgaggcca tgatgaatga gctggcccaa caggctgctg 240

atatccactt gcaaatgatg tagtcaaaaa gcgagatgaa gtgcacacgt ggaagatgca 300

tatgcctca gtttcttcat accatacatg ctgcagatgg gactgccgga gttccagtcg 360

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gggtatcat 429

<210> 41692

<211> 354

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 41692  
  
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 tgggtgcctg tgcaacgaag cctaagacgc ttgaggggaa agccccagct gaggccacca 120  
 tctccacacc caaggttgca cctgagacca ctgccatcca cattgaggtt gcggcgaaac 180  
 aggcagtagt tgagaagggtg gaggaggaca aggaggaggc actaacagtg gcggcgaaac 240  
 aagagccagc agccaccatc gagcctcaac agattgctgg tgaggtgacc acttcggaag 300  
 tggcggtcgt cgttgctcag cctgagaaca aagagganga ggaaagtgtg gaga 354

<210> 41693  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-018-Q1-K1-B10  
  
 <400> 41693  
  
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 cgggtgcctcc atacgcacta gcgagctgcc tcgacctaat cactggtgcc ttacctgttg 120  
 cagctattgc gatggcaaag atggacaagc tttccaatgc aagggttaaa acagctggat 180  
 caatggctgc ctggacagca cacacttctc tacatgtgga taccagcggc acatatgttg 240  
 acaaattacc ttaaccacg taactactaaa cggctgtcag ctttcagcat gtcgattgca 300  
 atgctagcca acggacatat gattt 325

<210> 41694  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-018-Q1-K1-B11  
  
 <400> 41694  
  
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attagctttg ctggtggtta cgttgccggt gtcttctgtg ctattgttcc tcacccgggt 120  
 gacaaccttg tgtcttttct gaacaatgcc aaggaggcta cagtgggaga tgctgttaag 180  
 aagcttggtc tctggggtct cttcactaga ggacttctc ttcgtatcgt catgattggg 240  
 acccttactg gtgctcagtg gggaaattac gatgcattca aagtgatggg tggactccca 300  
 acaacgggag gtgttacacc tgccccagca gcagaggctg gattgaaagc cagtgttga 360  
 tttttttttt ctgtgttccc tgagatcata tttggg 396

<210> 41695  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B12

<400> 41695  
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 ggacgtgtc atcgggcaga gcccgaaccc ggcgttcgac agcccgcggt cggagaccgt 180  
 ggccaacaag gcaggcggag ggccctgttg gagagagctc ctggagccgg gtgtcaggcg 240  
 cgcgctcttc tgtggcgta tgattcacat cctgcagcag ttgtctggca tcaatgggtg 300  
 gatgtactac acgccccaca tccttgacca 330

<210> 41696  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B2

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 gatggagatg aagaagatcg cctgcgccgt cctcgctgcc gcctcggcgg ccaccgtggc 180  
 gctcgccgcg gaggtccgg ctccggggcc caccagcggc tcctccgtcg tcgcgcccgc 240  
 cgtcggcgcc gacctcgagg ccgcccgcgc ctacttcttc ggctactaca ttcagtgagc 300

cggccgcggc cggtcgcccc gaggccgagg aagagacgaa gcgggagaga gagt 354

<210> 41697  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B3

<400> 41697

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aagaacagca tatccaagcg ccaggagaag actatcatga aactggtagt tgatgctgaa 120  
actgacaaag tacttgggtgc atccatgtgt ggaccagacg cacctgaaat tatccagggc 180  
atcgctattg cggttaaatg tggagccacc aaagcagact tcgacagcac tgtcggaatc 240  
cacccttccg ctgctgaaga gttcgtgacc atgcgccacc tgacgaggcg cttgagcccc 300  
acatccaagc caaagacgaa cttgtaagca agaaattggg attctgggga aatgttacac 360  
cggacaaata ctctggtttc atcacgttgg taatttttac gtcattggaa ctggaaccat 420  
gtatattg 428

<210> 41698  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B4

<400> 41698

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ccatggagat gaagaaggtc ctctgcgccg cctctgctgc cgccgtctcg gccaccggcg 180  
tgctggcctc ggtcgctgc gaggcgcct cagagcgcc cgacggcgcg gtcggtggtg 240  
cggtggccc tagcgcaagc ggcgccggcg tcgtcgacgt gcccgccgac ggggcgctcg 300  
tagactactt tctgcctac tacctccact gagcgacgac gcgcggggcc ggcacgttgg 360  
gatgca 366

<210> 41699

<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B5

<400> 41699

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ttcccatccc atctcgctt cgcttccac cagccccctc cgccccgctt cgccgcggca 120  
aggcaccgac gccaacgcc ctctccctct tcgactcgac cgcgtagtg agagacgacc 180  
gcgcgcgccc ctgcgccgcc cgcccgccag gagatcgacc cctgaacgcg tcatgacgta 240  
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<210> 41700  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B6

<400> 41700

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atggatcaag ggtgactatg gtcagtggac tgcttttctt gctttgttgg tgcgtctatt 180  
cttcttcatt ccaggtgaac tggagcttcc gctgtcaaca atgctgcttg tgagtgttgc 240  
tccttaccaa ttcattgata ttaagggaac tcaaagtg 278

<210> 41701  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B7

<400> 41701

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agagtttcaa gaacaggcag aaggaaatcc gaatgatggc gcaagtggag cggcaataaa 180



ggggactgaa gccgatcact gatgtaaatt tactcgtata tacgtatagt gttctagcta 240  
 tgcattgcttg cgtatatgct gtacttcctt cgcaaataagg aacaggagag caaatttatg 300  
 ctgccatgct aatagatctt cagtacacct gtaaagcaac cactcacagt tagatgatta 360  
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<210> 41702  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B9

<400> 41702

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 gtaaagcttg tgttccaacc atcagaggag ggctatggcg gaggctacta cgtcttgcaa 180  
 gaaggtgctc ttgacggcgt gtcagccata tttggcttgc atgtggaccc agcacttcca 240  
 gtaggtgtcg tcgcatcaag gccaggacca ttcacagcga cagcgggtcg gttctctgca 300  
 actattcgtg ggaaaggtgg tcatgccgca gtaccccatg aatccgtcga cctgtttgtg 360  
 gttgcagcca ctgcaatcct cagccttcag caaatcgttg ctctgtg 406

<210> 41703  
 <211> 110  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C10

<400> 41703

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<210> 41704  
 <211> 339  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A5

<400> 41704

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gttcaccatc aaaataactca gggaggaatt cgagcgagca gctaataatat tacagttcga 180  
tccaaacccc agcgtaacac tctttgagcc ctacgtgccc cctccatcgc cgagcctgtt 240  
gcaagaagaa actgcgaatg ctgcagaaat tgaactatga tagcgtttgg ttcgtcccca 300  
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<210> 41705

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C11

<400> 41705

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ctgaattatc tttgtcaaaa tgttcagtgt gacaatcgtt gttgcatatc tcatgaagaa 180  
gcatcaaatg agcctcgaaa gtgccttgct actagttaga agtaaacgac ctcaagtggc 240  
tcctaattggg gggtttattt cccagctgga gaagtttcag aaatccttgc aaggtaaaac 300  
acaaatagtt gcctttgtcc tcctttatgt taaaatgggt tcagagcaag gtgacatgtg 360  
tatcttgctt aatga 375

<210> 41706

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C12

<400> 41706

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tgaagcagga gggagaatat caacctgagg aacaccaga acctggcact gattacatcc 180

gggctcaaga ggctaggagg tttatgatct atgttcatgc caaaatgatg atagtggacg 240  
atgaatacat catcattggg tccgccaaca tcaaccagag gtccatggac ggtgccaagg 300  
actctgagat cgccatgggc gcgtaccage cgtaccacct ggcg 344

<210> 41707  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C2

<400> 41707

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agattctagc cttatgttca agattaccca caagattgca tataaaaaatg tggtgaaagc 180  
tcatagcgct gttatactga aagctgaaag catgagtgat aaaactgaat ggatcgccaa 240  
gattaagggc atcgtcgacc caaaaaggct ttctgcaaag aaaccaagcg cttcagaaag 300  
cggtgcccca atgaggcaa 319

<210> 41708  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H11

<400> 41708

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gctttttttt agggttgcmc tcctagttct aataatgtac tacgtatatt ggaagcagaa 180  
taaatgttag attgtaaaaa aagaaaatcc aaaaagaaat acgaaggga aaattaaata 240  
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<210> 41709  
<211> 383  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-017-Q1-K1-H12

<400> 41709

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aggaaacaaa agacaagatt ggaaatccca tactgggtcc acctccagct cgtattgaag 180  
ttgtagaatg cgaacaaact gaccatgaac gtgatttcta tgaagcactt ttcaggagat 240  
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gagctgaccc taanaagtat gct 383

<210> 41710  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H2

<400> 41710

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cattacttgt tgtatttaga aaatctaata ttatgaaggt caactttctt attttactga 180  
aagtctaaaa cacactacct attaacatat tagtgcttgc tcaagtgcag aaaaatgggtc 240  
aaaatcttcc ttgtgttggtc ttagcaatgc tttagcactc catatattct attataatta 300  
ggcagggttg gagaagaaaa gcgcatcaca gggaatatct atgacacttt tatactcatg 360  
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<210> 41711  
<211> 413  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-017-Q1-K1-H3

<400> 41711

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aggactggcc ggaggacacg ggcttcttcc ggcgcgaggg cgggtggagc acggagtacg 180

gggagttctt catgagctgg tactcgcaga tgctcctgga gcacggcgag cgcacctgtg 240

cggcggcgac gggcgtgttc acgggttccc cggcgtgaa gatctcggtg aagggtggccg 300

ggatccactg gcactacggc acccgggtccc acgcggcgga gctgacggcg gggactacta 360

acaccccggt cgcacgacgg gtacgcgcnc atcgcgcgca tgctggcgcg cca 413

<210> 41712

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H4

<400> 41712

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cagatcatcc atcggcaatg tcgaacatcg ggcagtcctt ccaggccggc aaggctgagg 120

cccagggcga gtaccaggcg gagcacgcgg cgcagtgcgt caaggacacc gccgcagccg 180

cggccgacag tgcgcagctg cagcagcacc gtcccaccgg caccgttgag caggtggcg 240

agacggggcca gggcgtggcg gcaggcgtca aggacacggt ggcggggcgcg gcggttgcg 300

tcacgaacac ggtggcgggc gtggcgggcg gcgtcacgaa cacggtcacg ggcgccgtgg 360

cgggcgtcac gaacacggtg accggcgcg cgcgtggtgt caaggacacc gtgaccggct 420

gccactgata gacgacccaa gaatgcctca tgcata 455

<210> 41713

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H5

<400> 41713

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gctcttggaa gtttttcaga agttccagtt gatgtcttca tcttggagga ttgccctcac 120  
gattggctct tccctcgggtg tgctgcagtg gtgcatcatg gtggagcagg tactacagca 180  
gcagggctga tagctgggtg tctactact gtagtgccgt ttttggaga ccagttcttc 240  
tggggagaga gagttcatgc acgaggagtg ggtcctgcac ctatatctat cgcagaactt 300  
actgtagaag cactatcaga tgcaataata ttcattgcttg atccagaggt aaaatcacga 360  
acaatggaac tggcgatagc aataagcaat gaggatggtg tggc 404

<210> 41714  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H6

<400> 41714

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ttttgctaga tggttttcac cgtaatcaat aatatggtgt tagagcattc taaatttcaa 120  
gaacatagta attgtagaag ctaaaaaaat agaagtaact aggagctaag ttaaaattat 180  
tgctctctag acctgcatgt ccaattttta ttatgcagtg aagtaaatta tgttttctgt 240  
aaaagtgtta tatagaaaag ttatagctaa ctcctttatc ttgcttgtgc taaaatttca 300  
tgaccatagg tctgtagttt aaaagttagt attttctcaa gtccagtctt ggaatctgtt 360  
tagattttgt acatatttcg aaactgactt tgtttgttca atttaaacad agaatcagtt 420  
cttataaatt ataagaagtt gtatgtaac 449

<210> 41715  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-H8

<400> 41715

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gcatatatat attcctgcc aataaaagg aatggagtcg tcacgcaggt tccagccggc 120  
cgatcatctg cttctcctgc tcattgtgtc caccgatatg gcacaggcaa gggaatgcga 180

gaagtacagt gagcgatttg ttggggcatg catgatcgca gacaactgcg ccaatgtgtg 240  
 ccgcggtgag ggcttcttgg ccggcaagtg cagcaccttc cgcgcgcgct gcatctgcac 300  
 taggcagtgc taaacaagat cgctcgatcg ctgcgccatgc atcgacaacc tattcttaat 360  
 aacgttcatt atctcgttct taattatgac gaatgtcatg tatgttcttg tgactgtcat 420  
 gtatattctg a 431

<210> 41716  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H9

<400> 41716

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 caggcaccac tcgtgtggag caagaactac tgcaccaaga aatacgactg ctagcacctt 120  
 cccaactcgc tggggatgga cttcgtgaac aacgatgatg cttccgttgt cacgtgctc 180  
 aactacaatt tcttgacat gaacatgtac cgctacaagg acatactgat caatgacgtg 240  
 accttaacac gaccgcaaga cagcccgaac acagataaca tccacatagc cgactcatga 300  
 cggatcacga tcactaacac 320

<210> 41717  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A1

<400> 41717

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 ttatatataa aaacattact atctactagt gctttattcc acataatact agtgctagta 180  
 tcgcatcatg ccctaacttt tctttgcaa acattattgt ttgcctcctg gtcgtggtcc 240  
 tgggttggtc cttgatgcg catccatcta ctagtatact ggaaaactgg ccactacaag 300  
 ggccgatgct gtcctggaa gtata 325

<210> 41718  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A10

<400> 41718

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acgacgtcat ccccgccaat ttcaaggccg gcaccaccta caagaccacc ctcagcatct 120  
gattagcctc ttatgacgaa taatatttca agagagctca tccggcccat gtgccagcga 180  
gctaataattt aattcttctt ctttggatat attgaggcac cacacgagcc aagaaaaaag 240  
ttatgctaca tgtcccgctt cacgccttga tgcgttaggt tgatatgcat gattacatag 300  
attaaactac acttttattt aagatTTTTT ggggagacat atattgatct 350

<210> 41719  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A11

<400> 41719

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gatgtgatcg tggactgtgc gagcgtgcgg ttccatacag gattggaacg gacaggcttg 120  
acgcgcggga gcatatctag tcgtgcaggc cggcgcgagg ctacgagcat catggagttt 180  
ctgtggacca tgataacgtg atgcatcgta taagaggacg aggacaggac gtcctgacag 240  
gacctgcgga tcccatgatt ctccgaagag gcaccctgaa tcgaagc 287

<210> 41720  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A12

<400> 41720

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cctggagatc atccacctgc tcaactgacgc caatcccatc caggtgggtcg tggacgccat 180  
tatcaacagt ggaccacgtg aggatgccac ccgtattggg tcagctgggtg ttgtgagaaa 240  
gcaagctgtg gatattctcac ccctgag 267

<210> 41721  
<211> 329  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-018-Q1-K1-A2  
<400> 41721

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gggaagaggg cgaccgaagg cggcgatggg tttcatcatg gacttcgcgg agaactctgat 120  
cctccgtctg atggaggacc cggacaagcg cgaccaggtt cggcgggagc atgtctacaa 180  
gatgaaggag cgggtgcgagc gactaaggc ggcgtggagc ctgcctctgc gcccctacgg 240  
cttctggacc ttcgaccgct tcaactcgca gctctctgg gatccccaga tcagccaggc 300  
cgncggccgt cgggaccctt acgacgacc 329

<210> 41722  
<211> 339  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-018-Q1-K1-A3  
<400> 41722

aaaaaaaaa aaaaaaaaaa aaaaaaaat aatttaaaaa aaaaaaaaaa aaaaaaaaaa 60  
ggagggaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa 120  
aaaaattaaa aaaaaaaaga agacccttat aaacactacc atttacattg agagtatttc 180  
tacacaatca attttttata cggacgcact atttaaatat gtagccctaa tataatcaac 240  
tactcattat gaaaaatcca ccatttaaac taataatttt gctggaaacc ttacaacttt 300  
taaactttcg gtcgttttta aaaattctgc gaacatata 339

<210> 41723  
 <211> 386  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A4

<400> 41723

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 caccagcagc atcgccacca gaatcgccgt cgacaccacc accagagtcc gtcgactaca 180  
 ccgccgacac cagcagcagc accaccgaaa tcaccgtctg atccaccacc agctacgcca 240  
 ccaaaatcat catctgatcc accgtcgaca ccagcagcta caccaccggc gactccatcc 300  
 ccatcatctt aatcacgaag gatatttcaa aagcagtagt agtttagtca aattagatat 360  
 gcgttttagg attctagttg atatgc 386

<210> 41724  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H10

<400> 41724

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 gtgcgagatc gagggccacc acctcgcggc ggcggccatc gtcggccacg acggtgccgc 180  
 ctggggcgag agcacggcgt tccccgagtt caagaccgag gacatggcca acatcatgaa 240  
 ggacttcgac gagccagggc acctcgcgcc gacaggcctg ttctcggac ctaccaagta 300  
 catggtcatc caaggcgagc ctggtgccgt catccgtggc aagaaggat caggaggcat 360  
 caccgtgaag aagacagggc aggcactcgt cgttggcatc tacgacgagc cgatg 415

<210> 41725  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F6

<400> 41725

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ggatctcata gcacgactaa atcaggaagc agctgttaaa gaatatctta ctacaaaggt 120  
taaggatttg gaggttgaat tggaagccgc aaagcaaaag ggtagagaga cactgcaaca 180  
agctatcctg actgaaagag agaggattac ccagatgcag tgggatatgg atgagctccg 240  
taggaagtat tctgagatgg agtcaaacct gaaggctgaa caaaatgaga aaactcgtgc 300  
agagtcagag aaaacaaccg ctagtgataa aaatgaaaca ttacttgaag aattagaaat 360  
caaacgaaaa gaagtcgaga ctttgaacat catctttag aagctg 406

<210> 41726

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F8

<400> 41726

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tgctcggcag caccgtggtg ttccagttcg tgatcgcca gtgcctgggc agcttcgcca 120  
acacgacccc tctcagcgtc gcgcagtggg gcgcctgcgt cgccatcggg ttcgtcggca 180  
tgcccgtcgc cgtggcggtg aagatggtgc cgggtggagta ggccgggcctc tcgatctctc 240  
tcggagttga gaaactggag gcaggcaggg gggcagtagt tgttggcttg aaatgtctat 300  
aacagcagta ttcttttttt tttttgtggt aagaacagaa cagaacagaa caggctttat 360  
ccatctgtga ttctactac 379

<210> 41727

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F9

<400> 41727

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ataaatacaa aaaaaatacc gatataacga aaacacaaat caatacgact actgcataaa 120  
 aaaaaaactg atgtgaggac acgcacatta ttacaaatcg ggggcggctg ttttaaaaga 180  
 atacagtttt ttttccatta gctgaaactc aaaaattctt tttttagcac gacaaactta 240  
 tactgttttc gccgactttt ctaatcacag gtttttaaaa actgtttatt tccctaaatt 300  
 tttaccgt 308

<210> 41728  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G1

<400> 41728

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 ctgcgaagtt ggtagaaga tgcaaggcag catgcaaag ctaacatgac tgtgatgctg 180  
 attggaaca agtgtgatct ttctcataga cgtgctgtca gctatgagga aggtgaacag 240  
 tttgccaaag agcatggtct ggtctttatg gaggcactctg ctaaaactgc aaaaacgtt 300  
 gaggaggcat tcattaagac cgctggtaca atatacaaga aaatccaaga tggcatattt 360  
 gatgtatcaa atgag 375

<210> 41729  
 <211> 217  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G12

<400> 41729

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 tgtaatgaag aaagggggaa aaagacaaga gaatgaaact gttgaaaatg gaaggaaaaa 120  
 gctcaagaca gatgaagaac atgcttatgt gctgattaag tatccaataa atgatctgct 180  
 agtaaggccc aatgcagatg atccgtcttt atttaaa 217

<210> 41730

<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G2

<400> 41730

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attacactgt ttgtgcatga gctgcagttt tatcttacca cctacacggt gcatcagatg 120  
tctgtagatc tgaaacgagg agaaactctg ccaatccata tcaatatgtc atttccttct 180  
ttgccatgtg aagtattgag tgtggatgca attgacatgt ctgggaaaca tgaagttgat 240  
ttgcatacaa atatttgga gcttcgcttg gataagtatg gccatatcat cggtagagag 300  
tacttgtctg acctagttga aaaggggcat gggacacatc atgatcatga ccatgatcat 360  
gaccatcacg atgaacaaaa gaagcatgaa caaaccttca acgaagaaag cagaaaaatg 420  
atca 424

<210> 41731  
<211> 356  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G3

<400> 41731

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gagaacatcg ccagctggt ggctccggag gcagaaggcc cggccgatgc cacggccacg 120  
gccacgctgg ctgcttaacg gaccattgtg ccattgttgc tgtgagagag atgtgctgca 180  
gccaacatgt gtgctattgc tttggcttat ttgtgttcag aatccactta aactcggctg 240  
aagtgaacct tccgttcggc aacgtctgta ctcttacgaa tctcgatcgt gtatgtcttt 300  
aagtattgtg ttgtgtttca aagataaaaa aaggtgacct ttgtgtatga tttttt 356

<210> 41732  
<211> 437  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-G4

<400> 41732

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gttgccacca tatccgacgt ggagatcaaa gagcatggtg gcgatgactt ctcttttacg 180  
ctgaaggagg gcccgaacgg cacctggaca ctctacacca agggcccgct caagtacccc 240  
ctttgcatcc gctttgctgt caagtctggt ggctaccgca tcgtcgacga cgtcatcccc 300  
ggcgatttca aggtctggcag cacttataag acgacactca gcataatc agcatctgaa 360  
gatgaactat atttcaaaag agctcatctg ggcacgtgt tagcaagaca attnttttct 420  
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<210> 41733

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G5

<400> 41733

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cgttcgcgga cccctttgag atctaccgtg cgttgccgat cgtgaatcct agcccatata 180  
tggcctatct acaggcacga ggctgtattc tcgtggcatc aagccctgaa attcttacgc 240  
gggtacaaaa gaggacggta gtcaaccgac cgcttgctgg aaccataaga agaggcaaaa 300  
caaaggcaga agacaaagtt ttagaacaat tgcttctgag tgatgaaaag caacgtgctg 360  
aacatattat gcttgtagac cttgggcgca atgatgt 397

<210> 41734

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G7

<400> 41734

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cctatttttg tgatgtcccg atggttgaag aggccataga cgccatctgc aagagccacg 120  
 gaacaccacc agatgagaag attgccatca ccaaagctat tataaatgta tcgaatggat 180  
 ccaagcccc actctttgct ggcatcatag cacttgtgat gagcatcgca acgatgggcc 240  
 gtctgacccg cagcatgatg cctgggaagg ttctcgggtg tgccataggt ggagctaccc 300  
 tctcagaagg taaatcaaaa gtacaagagc gccagcgggc caagctatca gaagaggctg 360  
 tggaagaagc tg 372

<210> 41735  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-017-Q1-K1-G8  
 <400> 41735

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 tgcggaacg tccccatctt caaggacggc aagggtcgcg gctcatgcta cgaggtgaga 120  
 tgcaaggaaa aacctgagtg ctccggcaat ccagtcacgg tgtacatcac tgacatgaac 180  
 tacgagccta tcgctcccta ccacttcgac ttgagcggca aggccttcgg ctccctggca 240  
 aagcccgggc tcaacgacaa gattcgccac tgcggcatca tggacgtcga gttcagaagg 300  
 gtgcgatgca agtaccgccg cgggcagaag atcgtgttcc acatcgagaa agggctgcac 360  
 cncaactacc tggccgtgct ggtgaagtat gtggcggacg acngcgacat cgtgctgatg 420  
 gaaaatcagg ac 432

<210> 41736  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-017-Q1-K1-G9  
 <400> 41736

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 gctgatgcct ccggtgctgc tacccttggg agcggagctg ccacgctgg tgcgccgct 120

gctgtcgeta ccatgatctt ctactgagtt caccagctgg gaccgtgtcg tcaaggggtgg 180  
gcacgtactt ggctgtgcgg taattgctcg tctggtcggg agggaccaat aacgcaagtg 240  
ttgcttttget ttgctcactt cgtttgctct tgtaacttta tggcgtcaac cgttatataa 300  
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<210> 41737  
<211> 395  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-017-Q1-K1-H1  
<400> 41737

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ccccagecga acaactgctt caagcgcttt gttatcaaca acctgtacag gttcctgcag 120  
aagaacttca ggtccaacat ttccagtctg aagatagctc ctagcaaaac cttgcacgtt 180  
ggaatgcaat atgagatttg agtagaggag ccttgcaaga tatgatggac gtgagattct 240  
agaacatgca gacgtgggta gtttagaatt agatgttttt tgttttgttt ttgaaactag 300  
cgatctgttt gtaattaggt cagcctcgcc atacaaagct accatgggtca taactttgga 360  
actatntatt tgagtgtggt ctttgttgca caatt 395

<210> 41738  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-017-Q1-K1-F4  
<400> 41738

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aatggcctcg gttccggctc cggcgacgac gaccgcgcgc gtcacctat gcctatgcgt 180  
cgtcctctcc tgtgccgcgg ctgacgaccc gaaccttccc gactacgtca tccagggccg 240  
cgtgtactgc gacacctgcc gcgccgggtt cgtgaccaac gtcaccgagt acatcgcggg 300  
cgccaaggtg aggctggagt gcaagcactt cggcaccggc aagctcgagc gcgccatcga 360



cgggggtcacc gacgcgaccg gcacctacac gatcgagctc aaggaca

407

<210> 41739

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E11

<400> 41739

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tggcttctat gtaggatgca actggacatc gccgtccact cgtctagcta ttgatgctga 120

agtcccgatg cttcatgcc aacgcgatgg ggctgggttg tctccgatat caagaggagg 180

gaagaggcac tgaagaatgg tgcagatcca catttgtttt tgcataattg ctgccttagc 240

tccaccaatt gtatttcatt ggaaatcatt aacgtaagtt tgccactcct tttatctaaa 300

gtaatcaaag tcattagtta ttatgggctt gggtaatgtg agtaagcacc attgcataga 360

tagccagtga tgttggctgc tggaaaagga gaaatcaatg aattatagat tgggatcaca 420

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<210> 41740

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E12

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aggggagggt ccgcctcgcg ggacaacacg acgttccgca gcctcgagcg cctcaccatc 180

accaccagca ggaggaagtg agctgccgag gaccacgccg acgaattctg agagtggaag 240

gcggttacta ggccgaggaa cttttgcggg atccttgctc tctgcagctg aagcaaactg 300

gcaaatagat gatggatgga tggttacaag gctgccatga aaatgcaccc tttccccaaa 360

ccccagcgta tagtataacg ctctccccc aactccaagag ggaagacaac tccaaagtac 420

aatgcaatct tgattctgtc gatc 444

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 <211> 444  
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 <223> unsure at all n locations  
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 agatataatg agaaccacaac cacatttgcg aattattgga actgggtttg catttggatt 180  
 tcttgtggga agaatgattc tggctcactt gtgtgatgaa cccaaggggt tgaaaacagg 240  
 gatgtgcatg tcccttgcgt attttccatt tgcaattgca aacgcgttga ctgcccggct 300  
 tgatgatgga aatccactcg ttgatgagca gctagtgtc ctgatgtact gnetatttac 360  
 agtggctctg tacatgcatt ttgctacatt cagtattcat gagatcacca atgcactcgg 420  
 gatccactgc ttcangatca ctg 444

<210> 41742  
 <211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-017-Q1-K1-E3  
  
 <400> 41742

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 tgctgatccg ggaacacaca gcgacgacca acctgttcag ctgcctctgg ttcaacgagg 120  
 tgaacctctt caccacacgc gaccagatca gcttcggcta cgtggcgcg aggctcggcg 180  
 acgctctcga gctcttcag tcccccaact gcgagtacaa ctgctgttc gtctgcaca 240  
 ggcacacgag ggagcactcg tctaaggctg agtgggcca aacggctcgac gagatcgtgg 300  
 agaaggggct gagggagagt agaggagggt tggggctgtg gactccgtac cctgcggacc 360

<210> 41743  
 <211> 379  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E5

<400> 41743

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ttgcagtctc agatacatta tatagctaag taaagatagc catcaaactg ctaaaagcca 120  
gaagaggcga ttgtcaacgg tataaataga gcatctaaat gcaagtcaaa aggcgtttct 180  
caatgttttg gtgagtttga gcaccgtgct tgcaaacaga aattattgaa tggcatggcc 240  
atatcccttc tcaaaactat agaaccaaaa ttggacatag ctggccagta tttagttgtc 300  
agccacttca attaggggtt gtcgtagtc agcaggggcc tcaaatccat ggaggttcat 360  
cacagttgog gctacattg 379

<210> 41744

<211> 365

<212> DNA

<213> Zea mays.

<223> Clone ID: LIB3075-017-Q1-K1-E6

<400> 41744

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gctatatgca cgaacgcaa gggcagcacc aagggttgcc tcaaggagct tgcattgttc 180  
tagaccctgc gtcgactgac ccattctctt agtgataatt cttctctcgt ctttgcattg 240  
cccattacat gctatccatt ggtaacgcac aacagtaaaa tgacagacat gcgacagcta 300  
tattatgttc gacggtgtaa caccctgaat ttgaggggtat aaaatttttt ctctaaatac 360  
caacc 365

<210> 41745

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E7

<400> 41745

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 gacaggaatg actactacgg aggagaatct tcgtccctga atctaacc aa gctctggaac 180  
 aggttcaagg gcaacgacag cctccccgag cacctgggcg tcagcaaaga gtacaacgtc 240  
 gacatggtgc ccaagttcat gatggcaaac ggcgcgctgg tccgcgctct gatccgcacc 300  
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 aagatccaca aagtcccggc aaccga 386

<210> 41746  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-017-Q1-K1-E8  
 <400> 41746

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 gggtccttcg acatcaccaa gttgggcgcc tacggcaatg gcaagacgga tagcacgaag 180  
 gctgtgcagg aggcgtgggc atcagcgtgc ggcggcaccg ggaagcagac gatcctcatc 240  
 cccaagggcg acttcctcgt cggaccactc aacttcacag gcccatgcaa gggcgacgtg 300  
 accatccagg tgaatggcaa tctgctggcg accacggacc taagccagta caaggatcat 360  
 ggtaattgga tcgagattct acgcgtggac aacctgtgta tcaccggcaa gggaaagctc 420  
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<210> 41747  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-017-Q1-K1-E9  
 <400> 41747

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tggggaaaga actgttgaac acacagaaaa tggatcatgtg ttatcaacca ggtctgtcaa 180  
 aggaaatgag ggaactaaaa acagaaaagc ggacaatgaa atgatctggc aagctgtgct 240  
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<210> 41748

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F1

<400> 41748

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 gatacaacac acaagacaaa tatatatgat aaaccactgg gcatgtttgt tggagctaac 180  
 agccatctgc agtgtacaat gtttggattt gttttgttgg gagatgaaac agtacagact 240  
 tttgaatggg ctttcaattc attcaaaaca tgtatgggag gcgaggggtcc aagagttatg 300  
 cttacagatc aagatcctgc aatgccatt gctctgagaa ctgtatttcc aaaaacagtt 360  
 cacagactgt gcttatggca tgtacagaac agatttatgc cattccttga tgagatatat 420  
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<210> 41749

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-F10

<400> 41749

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 cctggcattg acatcactct taaggagggt gacacatgga tgttcgctgg ccatcaagtt 180  
 cttgtactgg aaactcctgg gcatacaaca ggtcatgtgt gctattattt cgctgggttct 240  
 ggagctatat ttacgggtga caccttggtc aatctatcat gcggaaagct ttttgaaggg 300  
 actccacagc agatgtattc ctacttcag aaaattacag ctctacctga tgatacaaaa 360

gtatactgtg ggcataaata taccttgagt aatgcanagt ttgccttgag tgtagaaccg 420  
 ggaaataaag 430

<210> 41750  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-017-Q1-K1-F11  
 <400> 41750

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 cgatggcgga gccggctccg gctcccccg tgaccgcgcg gctggtgggg ctgctgtacg 120  
 acgagcggat gtgcgcgcac gcgacgccc acggggagga acacccggag aaccccgagc 180  
 ggctgcgctc catctggcgc aagctcaacg ccgcgggcgt cgcgtccagg tgtgtggccc 240  
 ttaaggcaaa ggaagctgag gacaagtata tagcttctgt tcacagcaag aggcatataa 300  
 agctgatgaa ggaaattagc tcaacaatat atgatgccag caggaacaag attgctagga 360  
 aattcaattc catttacttg aataagggtt cctcggaaac t 401

<210> 41751  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-017-Q1-K1-F12  
 <400> 41751

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 aagaaagggg catcatcgct agccgttctc ttcgtgctag ccctgacgct agtttgtgcc 120  
 ccgctgatag cagaagcaaa gaagaagaga gtcgccgccg ccgccgccga ggagaagaaa 180  
 gtgcaggaca acttctgctc gacgctgtgc gagggcagga aggggatgga cctggtggtg 240  
 tgcaaggagt cctgcgacct ctcacaacgc tccaacctgg tgctgtacgg ccggatccag 300  
 tgcaagggca agtgcac 317

<210> 41752  
 <211> 433

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 agacacaaca gaagatttga tgcttgtcat gggatctctt tacgcggcat gcctgtttct 120  
 tgggtgaaat aacgcctcat ccggtgcagcc tgtagtatca actgagagga ctgtctacta 180  
 ccgggaacgt gctgctaaaa tgtactcatc gttcccatat gctgcagcac aggaaagctg 240  
 cttctgtatc ttcttttcat gttccttact ttcacctact tcacgttcta cgggatgggtg 300  
 gcggtaggct tgaccccaac acaacaagtt gcagcagtag tgtcatctgc tttttactcc 360  
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<210> 41753  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ctattgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag tgagcgattt 180  
 gttggggcat gcatgatcgc agacaactgc gccaatgtgt gccgcggtga gggcttcttg 240  
 gccggcaggt gcagcacctt ccgccgccgc tgcattctgca ctaggcagtg ctaaacaaga 300  
 tcgctcgatc gctcgccatg catcgacaac ctattcttaa taacgttcat tatctncgtc 360  
 ttatttatga cgaatgtcat gtatgttctg gtgactgtca tgtatattct gatgactgtc 420  
 atgtatcttg gtcattgatg ct 442

<210> 41754  
 <211> 435

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-017-Q1-K1-E10  
  
 <400> 41754  
  
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 ggcgacgatg acccagacga cctcgtcccc atggacaccc aagagcaaga agagctggtc 180  
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 tgagagctgc ggtaccatgc ttacttcatg gaagatttgc ctgcaccaat ggtcataatt 360  
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<210> 41755  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 41755  
  
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 cacacatctc atcgcaagca taaaagcaca gatcaagttg gtatgtgaag gtatccgcga 180  
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 tctcaatgga gcaggggggtg gtgttctgta aacgtgggtc cgtttcaact cttgcagttg 300  
 aaattattgt ggtgccgaca gtattttaga gcagagaatg acgttcccct tcgtataaca 360  
 atctcttcga cgacaccacg tacaactcat actgatttct atgntttcat tatgttttca 420  
 tactgatttg c 431

<210> 41756  
 <211> 288  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C6

<400> 41756

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gtcctttcta tttcattaat tttatcgctt tttgttttgg catgactgat agcacgaacg 180  
ctgttcagga tgcgtgcgca ttatcgcttct tggtattttt gtagcagacg atcctcattc 240  
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<210> 41757

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 41757

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cattgttgcg gcacccctctg ccacgtcag ccttcagctt cttgttgccc gcgaaattga 180  
tcccctccag gctgcagtgg tctcggtcac gttcatgaaa ggaggtgatg cttacaacgt 240  
cattccagag tcagcatcct tcggcgggac cttcaggagc ttgacaacag aaggcttttc 300  
gtatctcatg aagaggatca aagagatcat agaaggtcat gccgncgtcc accgctgcac 360  
cgncgncgtc gacttcatgc angagaagc 389

<210> 41758

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C9

<400> 41758

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tcacaaacat gaactacgag cctatcgctc cctaccactt atgctagagc ggaatggcct 180  
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 caa 243

<210> 41759  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
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 cggcggcggc ggggggtggag gcgaccgctc ctgctacaac tgcggcgagg ccggccacat 240  
 cgccccgcac tgtccacgt gaggtgtgtc cgcgtccgtc cagccagcca gatcggatcg 300  
 gatcgctcca ccacctgctg gtcttgatgg cgccgcenct tctagatctc gcttaaaaaa 360  
 acatnccct ctgctgtgt gtccgagt 388

<210> 41760  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-017-Q1-K1-D10  
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 gaatccgcac aaggaaaaga tggagaagaa gccgaccatc ctcatgaaca ggtacgagct 240  
 cgggcgcacg ctcgggcagg gcaccttcgc caaggtgtac cagggccgga acctcgcgtc 300  
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391

<210> 41761

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D11

<400> 41761

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gttgatcgac tctcaccttg tgccttcctc cactgctgca gagtcgaagg tgttttacct 120

caagatgaag ggagattatc acaggtaacct tgctgagttt aagactgggtg ctgagaggaa 180

ggaagctgca gagagtacaa tgatagctta taaggcagct caagatattg cgttggcgga 240

actggcatct actcatccca taagacttgg acttgcactt aacttctcag ttttctatta 300

cgagattctg aactctccag acaaagcttg caaccttgcc aggcaggcgt ttgatgaggc 360

tatttctcag ttggatacgc ttggcga 387

<210> 41762

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D12

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tccatttgct taccctcaa ggctgcagc cgatgcttga tgtgcctata tatggaagaa 180

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<212> DNA

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atccagtacg tcagctactg gttcggcgag ggcgacgggt cggcgccgac gcagtggagc 360  
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<210> 41764

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D3

<400> 41764

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tttgttgttg ttgcagagag cttagatgat gatttgatat gttcctgtgt aagcagaggc 240  
ggaaacctca ttggagtgtg agatggttac attttggaat taatattctt tatggtacca 300  
ggaaattttt ggcgagttaa tgattaggtt ggttgagcat gagctggatg aagcttgatc 360  
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<210> 41765

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D4

<400> 41765

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 ccgacgtgga gatcaaagag cacggtggcg atgacttcta ctttacgctc aaggagggcc 240  
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 t 421

<210> 41766  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-017-Q1-K1-D6  
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 cgaggcggat ctgaaggtga agaaggtgtt cgtgcgcgcc gacctcaacg tcccgtctga 180  
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 cctcctcgag aagggcgcca aggtcatcct cgccagccac ctgggtcgtc caaaaggtgt 300  
 caccctaaag tacagcttga agcctcttgt tccacgcttg tctgagctcc ttggagttga 360  
 agtcgtgatg gccaatgatt gcattggtga agaagttgag aagttggctg ccgctttgcc 420  
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<210> 41767  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-017-Q1-K1-D7  
 <400> 41767

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tgggtttcttc gacatcacca agttgggctc ctccggcaat ggcaagacag acagcacgaa 180  
 ggctgtgcag gaggcattgg catcggtgtg cggcggcact gggaagcaga caatcctcat 240  
 acccaagggc gacttccttg tcggacaact caacttcaca ggcccttgca agggcgacgt 300  
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 tggtaattgg atcgagattc tacgcgtgga 390

<210> 41768  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D8

<400> 41768

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 aaagcttacc ttatgatgca ttcttcttca gctttctgtg cccctgaaca tgatgcctgt 180  
 tctgaaactc aagctccaga cttatgttca ggttcagatg ttgttttcga cccagccaa 240  
 tgttatccag ttgctagttt ttctgatctt gggatctcgg atacaccact aacatcaggt 300  
 ttcttgaatg atataacact agcaagtttg ttgaatgtca atttgaagga cctgtcacat 360  
 ctcaaccgac aggaacctac caatgatata tca 393

<210> 41769  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-D9

<400> 41769

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 tcctcgtcag ctctcctcgg ccgcatcgc ggtggcaccg ttcgcgggcg ccgcacgcgt 120  
 ggacgtcgtg gagggtaggt ccatggcatc cgccgatgca ccggaggcgg cggccgatgc 180  
 tcccgtcct agccccgact ccgcctcatc cccagactca tcgtcagagg cgccctccag 240  
 cagcagctcc ttcgactaga cgcaaaaacc tcttcattct ctggaataac taacagtata 300

tacgttgca cctgatgata tagaaacatg tacgtgcac agtgtatgga atgcgagtgg 360  
 canacacatg gaatgtgctt gcctaaatat ggggtgatttc tttattttatt atatgtctct 420  
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<210> 41770

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E1

<400> 41770

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 caccoccttca cctaggcagt ttgtttcttt aaccgcagac cagagtggag aagtcatatg 120  
 tgctggaaca cttgattcgt ttgagatatt tgtttgggtca atgaaaactg gtcgattggt 180  
 ggatgtactc agtggtcagt aaggaccagt gcatgggtcta atgttttcac caattaatgc 240  
 tattctggct tcatcatcat gggacaaaac tgttcgcctc tgggatgtct ttgagagcaa 300  
 ggggtgcagt gaaacttttc agcactcaca cgatgttctt acttttagctt atcgacctga 360  
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<210> 41771

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C4

<400> 41771

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 tggcccgggt ggcccgggtg cagcgtgttc cggctgtgtg gtgccagtgc tcaagggtcg 180  
 aagcataatc tggcggaagg gcgagctcat taagcggctt gtcgaggaga ccaaggccag 240  
 ggtccgcac ctcgagggcc ctgtcggcgc caccgagcgt atcgttttgg tctctggaaa 300  
 agaagatcca ggcttgagc taccttcagc catggatgct ctcatgagag ttttaaagct 360  
 tgtcactggg atagcacatg gtgct 385

<210> 41772  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A7

<400> 41772

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tcaagagaaa catctggaca ttgttccgac tagctcatcc cctgaaagga agttttcttt 180  
tagttcttgc tcattcaaag ggctcctttt gtccaaagag agctctaaac agcaaactag 240  
catccacaac cttgacaagt gtaatggagg gcatttgcat gtatcagatg aaacattttc 300  
tgaagctgct cctaagacac ataaatcagc agaggaccat gatgataga 349

<210> 41773  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A8

<400> 41773

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atggtcttac cccttgccca cattgattaa agaggaagtt ttaccaaaga tatgtgattt 120  
gcaagacaga ttcgaccagc tcaatgcact aaacattcag ctggaaactg aagttgcagt 180  
cctcaaggat ggcatgaaag agctggatga agatcttgga acttcgcgat ctgagcttca 240  
gaaaaagggtt tctgaacttg aacagttaga tcagaaattt tcattctgtg aggaaaaact 300  
tagtattgct gttgcaaaag gtaaagggtt gatagtgcag cgtgacagcc ttaagcagtc 360  
tttgctggag aagtctggtg agatcgagaa actcacacaa gaactgcagt taaaggaaac 420  
attgctgaaa gagttggaag ccaaactc 448

<210> 41774  
<211> 383  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3075-017-Q1-K1-B10

<400> 41774

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ggccaacaat gccaatttta gcagttatct tcccacgtga aggatccgat ccatcaaagt 180  
ggcgttctta tggcacaaca caggcaagac aatgtttcgc agtgagaggc gtgtaccctt 240  
tgatggggag tactgatgag gccgaaactg gtgggctaac aaaggaagag tatgggataa 300  
aacttgcgat gagctatggt cggtcggttg gcatagtga gcttttcgac aggttgataa 360  
tctttgaaaa gattggtgat tct 383

<210> 41775

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B2

<400> 41775

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tagctgccag gataatggcc tggtgccaaa tgttgtgcct gaaatccttg ttgatggcac 120  
tcatgacatt gatcgctggt cttacgttat tgagaccgaa catgctgcct gcatacaatg 180  
tgctcaacga gcaccatgtg atcctggatg gtactctcct ggagctccaa catggagaca 240  
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<210> 41776

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B3

<400> 41776

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gaagatgact gcggcgggtg tgtccgtgcg cagcagcagc acgtcgctgc tagcagcagt 120  
catcctgtgc ctctgcatcg tctccctctc cccccgcggc gccgctgccg cgcgggtctc 180

ccccggcgcc agcccgatcg tggccacctg catgacgggc ccgtaccgag agctgtgctg 240  
 gggggagctg ggacagcggc tgctggacgt gcagacgtcg atcgcgtecg cggcgcccga 300  
 ccagcgcgcg gccaggatcg cgggcgcccc ggtgcagggtg gacgtcaggg cgctggtggc 360  
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<210> 41777  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B4

<400> 41777

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 gggagccaat ataattttgc tctagacaat tttagcttgc tttctgaacc cttaggtaag 180  
 ccttcaagat agtgaaaatg ttaagtgagt agcttacgag ctaaataatg gctagatatt 240  
 ctcggtaaaa aaaaaaaaaa aaaaaaaaaa acaaacaaaa aaaaaataa agaaaaaaaa 300  
 aaaatgacat tt 312

<210> 41778  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B5

<400> 41778

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 ggggcaattt gctggaagtt ccattttgga cggagaatct ccagctcctg gatgtgatcc 180  
 tggttctcag ggctcaggcc tagattttgc atctcgataa tcaatgtgcc agaactgtgg 240  
 tactagttaa aaaatgaccc cagcaatgcg tactggtcca gcgggtccaa ggactttgtg 300  
 caatgcttgt ggattgatgt gcgcaaacia ggggtaccctg ataagttgcc ccattggcaa 360  
 agtgaatct cctgcggttg caactgagca gggaacaagt gacaacaaag cccttgcaac 420

actgaataat aa

432

<210> 41779

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B6

<400> 41779

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caaggctcgtg gggctgcccgc tgccgccatc ctacgcccc ggcgcgctaaa gacgacgaag 120  
ggcgcgtttt cacctcgtgt tctgaccatc cagtctaact aatccattcc tgtgctgctc 180  
ggcgaaataa aatcatcaaa aagaacaaag acgaaggaag cctaggggaag ggagaaggga 240  
cgttgggtgg gggtgagcca aatgagaacg cacggatata tctattgatg taatcttgag 300  
atgccctctc aaatcactgt aatggggttt aaaaaacaat cattgtaatg ggagttatat 360  
atacttttat cttaacattt atttacacca gcaagtcctg gtgt 404

<210> 41780

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B7

<400> 41780

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aatgtcgaac atggggcaat ccttccaggc cggcaaggcg caggcccagg gcgagtcca 120  
ggcggagcgc gcagcgcagt gcgttaggga cggcgccggc gccaccgct gcgccgtgac 180  
cgacaccgcc ggagccgcgg ccgacagcgc gcagctgcag gagcaccgcg ccgccggcac 240  
cgttcagcag gctgctgagc aggtggcgca gacggcggcg ggcgcggcg cagccgtcaa 300  
ggacacggtg gcgggcgcgg cggcgccgt caaggacacg gtggcggcg cgccggcagg 360  
cgccaatgac gcggtgaccg gcggccactg accgactcac gcgcgtgaac cgga 414

<210> 41781

<211> 325

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-017-Q1-K1-B9  
  
 <400> 41781  
  
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 aaggccacgc cggcaacgta ctgtgacgag gcatcggcgg ccgcgaatgg gatgagctgc 180  
 tgctggggcg aagtactttg gccgtactac ctgtaataca tccatgacct gcagctacag 240  
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<210> 41782  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-017-Q1-K1-C1  
  
 <400> 41782  
  
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 tatctgtgga catggctttt ttttgttccg ctagctgctt acaccctgtg gcaacttatg 180  
 tatttccctca tagttaatgt cctgcgtcga cagaggttgt taagggaccc tgaagtcatg 240  
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 agcggactgc tgggtgaccg gaaccggcag gtcatgtaca tactgctcca ggcgctgttc 360  
 acagtggcaa caatggcact 380

<210> 41783  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-017-Q1-K1-C10  
  
 <400> 41783

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aaggtgcgcg ccgtggtcaa gttcaacgcg gcgctggcgc accacatcat ggccggcgcc 120  
gacgtgctcg ccgtcaccag ccgcttcgag ccctgcggcc tcatccagct gcaggggatg 180  
cgatacggaa cgccctgcgc ctgcgcgtcc accggtggac tcgtcgacac catcatcgaa 240  
ggcaagaccg ggttccacat gggccgcctc agcgtcgact gtaacgtcgt ggagccggcg 300  
gacgtcaaga aggtggccac cacattgcag cgcgccatca aggtggtcgg cagccggcg 360  
tacgaggaga tggtagaggaa ctgcatgac cangatc 397

<210> 41784

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-C2

<400> 41784

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gatgtccgag aactgccgct cgctctccaa catgatctga tcgatctcct tctccacgga 180  
cgacaacaga gagccgggcg ttttgggccc tcgcatcggt tgctcgccgt gctaacgttc 240  
gcatgcccat gcccgcgagc gcgctctcgc gcgacaataa ctgatgagtt aagtttgttt 300  
tgctttgacc atctcacatc gttatttcct gtagagatgc gttaatttgg tctcggaaac 360  
ggngaggcga attgaggtgg aatatttata attcaagaaa cacaggtttg gttctagaa 419

<210> 41785

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-C3

<400> 41785

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ccgtcaaata gattggtagg gagccagag ggtgatggga atggcgaagg agcagcactt 120

cgtgcttggt catggcgaag ggcatggggc ctggtgctgg ttcaagctcc gctggctcct 180  
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 cgaccccaac accatccggt ccttcaagca gtacgacaag ccgctcatag acctcatctt 300  
 caacttgcca gacggagaga aggtgattct gatcggacat ggcgcttgan ggctgagtgt 360  
 gatccatgca atgcatgaaa ttgntgacag gatcgggtcaa gcatttttcg tggccgcaca 420  
 atgc 424

<210> 41786  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-016-Q1-K1-F12

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 gagggatgtg ggctcgctg cgagctgga ggcggccgtg gccggggcgcg gggcgg 356

<210> 41787  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-F9

<400> 41787  
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 aattctatca ccctgcatgg gactcatgtt gtttgcaact ggtttagcac gaactggtct 180  
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tacgttaaga atatatatat actaacatca gaaaaatgta tgtattttat gggcttaata 360  
gattcagaac tgggaag 377

<210> 41788  
<211> 404  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-016-Q1-K1-G10

<400> 41788

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ccgtcccccg acctgtgcac caggacggcg gggaagcacg ccaacaagta caaggtggtg 180  
gacgcggtga cggtgctaga gatgcaggtg gacgcgttca agaagcgcg gaaggcgcg 240  
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aacctctgca agacctacta cctggacgcc gncgacaacc tcggcgctg caagcgcgcc 360  
atcggttcc gcgacgccgt caccatccgc gccacgatga gcac 404

<210> 41789  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-G11

<400> 41789

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cgccgtcttc atcgccgctt cggccaccgt ggcgctggcc gcggaggcgc cggctccgtc 180  
tcccaccagc ggctcctccg cggtcgcacc cgccatcgtc ggggcccgcg tggcctcctt 240  
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gcgtgggcgt gctctgattg ggc 383

<210> 41790  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-016-Q1-K1-G12

<400> 41790

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 gaggcaccgg cagagtcacc gaaggcaggc agtcctgcca aggcaccggc cgagtcaccg 180  
 aaggcaggca gtctgcagc tcttgccaag gcacccgagt ctgctgccac gagaactgcc 240  
 cccgctaagg cacctcaagc cgctccacc cccgcccgtg ccgctgcccc atcgtcgtcg 300  
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<210> 41791  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-G9

<400> 41791

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 tctcggggat tagcaccgc accacaaga tggccacacc gaacggtcct tctgcttctc 180  
 cgatggtgta cctgtctac ctttctgggg tatttcccca gcaaggcggg gatgatcagg 240  
 ctcaacgtcc atggatatat gccataaac agaaccagtt agcagcggcg atgggaatgg 300  
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<210> 41792  
 <211> 412  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3075-016-Q1-K1-H11

<400> 41792

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gaggtctcagg gcgatggcca cagacgcgcg tgcagtgcgg aatccccag cctctagtgg 180  
ctgccccgcy atgaaggcgg agttcgccaa gcacgccgag tacctcaaca ccctgaatga 240  
caagagagaa aggcttgtga aagctagtcg ggatattaca atgaacagca aaaaggatcat 300  
ctttcaggtc cacagaatca cgaaagttaa cagggacgaa gttctctcga aggcagaaaa 360  
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<210> 41793

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-016-Q1-K1-H9

<400> 41793

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gcacctccac atcaagcgcg acttccttca ttagctgggc caatcactcg ggcccgtgcc 180  
agagatctta acttcgtcat gctactgaag aatgagggcc cagaagaata gacgaccaac 240  
ccaactgcgg cccatagtgg acgacctang gatggccgcc cctaggggtt gcgccccctc 300  
tctatttatc aaggagctac gcctcatttg ttcttgaggt tttgttttac gttagctnta 360  
gctactctcg aacacgcgca aat 383

<210> 41794

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-A1

<400> 41794

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gagtatagcg gcaccaacaa caagaccatg gctatatgca cgaacgccaa gggcagcacc 120  
aaggggttggc tcaaggagct tgcattgttc tagaccctcc gtcgactgac ccatctctct 180  
agttataatt tttctctcgt ctttgcattg catattagtt gctatccatt ggtaacgcac 240  
aacagtaaaa cgacaaacat ccaacagcta tattatgttc gacggtgtaa caccctgaat 300  
tttaggggtat aaaatttctt ctctaaatgc aaaccaaatt caggtgttaa aaaaaaaaaa 360  
ccaanaac 368

<210> 41795  
<211> 278  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-017-Q1-K1-A10  
<400> 41795

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agcaatggga cccatgggct ggaacgttca gaagcgcaac tataagctga agctgcaagg 120  
ggagaaccct ggaacgaaag gtgagctggc catcgcaaca gaggttatcg atggtcacgc 180  
cttgcattga catgcgtgag ctgcgcaagt tcaacagtga cacccttgaa taccacaagt 240  
gataccacat catttaacat gggctgaacg acgtgatg 278

<210> 41796  
<211> 325  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-017-Q1-K1-A11  
<400> 41796

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gctgcgccca ccttgagca aacaggtggc gaaaccgaag agccgaccat ttagcacct 120  
gctaataaat atacagtga ggaggtgct cctcagcaga agtgtgcaa gatacacgac 180  
ttttgcctag ggataccttt tgggtggactt ttactctcca tgggccttat tggatttctc 240  
ttctggagga gccctgcgag tcttaccttt ggtgttgac ctggccttgc catattggcc 300

ctggctgtac ttagcctcaa tgtct

325

<210> 41797

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-A2

<400> 41797

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aaattacggc gatgatgagg ggcaaatgag gtaggcaaca gcgaacctaa ccaactgaag 120

aaaaaactct acaaatccac ctacacccgc agggctttct caacttcac accaagacat 180

agattagggg gggtagacat tcatcaccca tgttttattt ccgacaatca aatcccaacg 240

agcatagcac cgaccgaact gacacatcgc atgcataatg tgttcacccc tctctaggag 300

gggggcaaca ccgttctaca actaaaaaac ccaaaccaac taaaaatcca ccgaccacaga 360

gttgctcagtt gaccattat tcctncgnct gatcaacatt acacac 406

<210> 41798

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-A3

<400> 41798

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gccgtgtgga gcaagaactc ctgcaccaag aagtatgact gcaagatcct tcccaactcg 120

ctggtgatgg acttcgtgaa caacggggag gtgtccgggg tcacgctgct caactccaag 180

ttcttcaca tgaacatgta ccagtgaag aacatgctga tcaaggacgt gaccgtgacg 240

gcgcccgggg acagcccca caccgatggc atccacatgg gcgactcatc cgggatcacc 300

atcaccaaca ccgtcattgg cgtcggcgac gactgcatct ncatcggcc tgggacctnc 360

aagtggaaca tcaactggcg 379

<210> 41799  
<211> 362  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-017-Q1-K1-A4

<400> 41799

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cagggcatca gcgtcggctg cctaggccgc tacaaggacg agaaggacgt gagcgacatc 120  
acggtgcgga actgcgtgct caagaacacc accaacggcg tgcgcatcaa gtcgtacgtg 180  
gacgccgagt ccgtgctgac ggctnccat ctcaccttcg agaacatcag gatggaggag 240  
gtggccaacc ccategtcat cgaccagtac ttctgcccgc agaaggatat ccctggcaag 300  
cggagcaact cctcgcatgt ctccgtcaag gacgtcacgt tccgcaacat caccggcacg 360  
tc 362

<210> 41800  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A5

<400> 41800

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cccggagacg ggcctcgaga agctccgcaa ggccaccacc gcccgcccgc tcgtcatcaa 120  
caaagacgcg gacggcgga gctacaagcg ggcgagtcg atgccgtcga ccccgacgac 180  
gccggtgacg ccgtcgtcgt cgtcgtcgtc gacgacgccg cgcggcgccg gcaacgtgtg 240  
gcgcagcgtc ttccaccg gtagcaacct ggccaccaag ggcattggcg cc 292

<210> 41801  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-A9

<400> 41801

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 ccgaaccgct tcgactcgga ctcgactcg gagtccagca ataagccggc gaacaagtcc 120  
 ggggcgtcgt cgtaccaagc ccccgccgac gccagaagc ggtacaagga cgggttccgg 180  
 gactcgggcg ggctggaaaa ccagtcggtg caagagctgg agcactacgc ggcgtacaag 240  
 gccgaggaga cgacggacgc gctcgccggc tgcccgca ttgccgagga catcaggcag 300  
 gacgccagcg acacgctgat cac 323

<210> 41802  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-016-Q1-K1-B11

<400> 41802  
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 ccgtgacggc gcccggggac agccccaaca cggatggcat ccacatgggc gactcatccg 120  
 ggatcacgat caccaacacc gtcattggcg tcggtgacga ctgcatctcc atcgcccccg 180  
 ggacctccaa ggtgaacatc accggcgtga cctgcggccc tggccacggc atcagcatcg 240  
 gcagcctang gcggtacaag gacgagaagg acgtcacgga catcaacgtc aaggattgca 300  
 ctctta 306

<210> 41803  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-016-Q1-K1-B12

<400> 41803  
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 gtccctgacc cctcctcctt cttgaagcga agcccttga aatgaatgaa ccatgcatgc 120  
 atgcatgtat gcatgcgccg gggtagctg gcgttcagct caggcgctga gcgagtctat 180  
 acgtacgtcg tcaccggctg gccacgcatg cgataacat ctgatatgga cggaactata 240

tattgtattc ctattaatct ggcattttct aagctaattg ttttttttcc aaatataaccg 300  
 tcgatggaac tccaaatgta atgtcacgca natgtgtgtt tttcatcgat tgaatggata 360  
 ataataaaaa ggcattgctgg cagggtactac t 391

<210> 41804

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-B9

<400> 41804

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 ggacaccaag gagctcgctg ctatgaagta catcccagg gggctcaaga ttgacgagaa 120  
 tgtggcgagg gagatcataa accaccgctc gttgcggcac cccaacatca tccgcttcaa 180  
 ggaggtcgctg ctacgcca cgcaoctcgc tategtcatg gactacgccg ccggcggcga 240  
 gcttttcgac aggatctgca gcgcggggag gttcagcgag gacgaggcga ggtatttctt 300  
 ccagcagctt atctgcggtg tcagctactg ccacttcatg caaa 344

<210> 41805

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C10

<400> 41805

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 gcaggctgct gctagccgtg gcggcggcgg ccgtgctcgt ggccgcggca gcgcaggcgc 120  
 aggagacgtg ctcggggacc gtccccgcgc cgccgcgccg cggggcgcggt gtgtccgtgg 180  
 ccagcttcgg cggcgcgggc gacggacgga cgctcaacac ggcgggcgtt gcgcgcgccg 240  
 tcgccagcat cgagcgccgc gccgcgccgg gcggggcgga gctctacgtg ccgcccgggg 300  
 tg 302

<210> 41806

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C11

<400> 41806

gtcgtcatta attcttcgaa ggacaggggt cccaacatca agttcaatgt tgcgaaagga 60

ctacagtcac ttgtaccgat cctcgaccaa tctgtgggtg agaagaccgt gaaaccgtgc 120

ctcgttgagc tcagcgagga ccctgacgtc gacgtaaggt actacgcaaa ccaggcactg 180

caggcgtgcg accagatgat ggtgtcaagc taactagcct ttgtgtcaag tatttagaga 240

gttcgatcga tgctccatag tccaattttg gattacctgt aatttggcct ttagatttga 300

agagttgttt gtgtctagcc tcggtaacag ataaaaacgg gacggcctga tccccttggt 360

cgtttgtggt aattaatggt gtaattgagc 390

<210> 41807

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C12

<400> 41807

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ccgccacatc tattaggtgc agccatgggt gcctgtgcaa cgaagcctaa gacgcttgag 120

gggaaagccc cagctgaggc caccatctcc acaccaagg ttgcacctga gaccactgcc 180

atccacattg aggttgcggc gaaacaggca gtagttgaga aggtggagga ggacaaggag 240

gaggcactaa cagtggcggc gaaacaagag ccagcagcca ccatcgagcc tcaacagatt 300

gctggtgagg tgaccacttc ggaagtggcg gtcgtcggtg tcgagcctga gaacaa 356

<210> 41808

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C9

<400> 41808

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agcttgacag cttgaagggt tccgggtgatg tttgggttcgg ttctggaatt gtactgaagg 120  
 ggaaagtgac catcactgca aaacctggcg tcaagctaga aatcccagac ggagcagtga 180  
 ttgggaataa ggatatcagt ggccttgagg accttttagat aagaatcagc gaatcagcaa 240  
 ggaggctcac ttcgccaagt ggcggatcat ttttcgtgtt tttttcctgt atattcaaac 300  
 aggttccatg atattatgga gaatattaat tgccagtata atccagaaat tttacatgta 360  
 ttttactttg agggaaatgt tttacacac 389

<210> 41809  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-D10

<400> 41809

aaaacatggc tgtgaatgtg agaaccatgt ggtcgtcgat gcgggcacag gttgcgatgg 60  
 ttgtggcggt ggtgtttctt gtgagcggcg catggtgagg tcctcccaaa gtccccccag 120  
 gcaagaacat caccggccacc tatggcaagg actggctgga cgctaaagcg acatggatatg 180  
 gcaagccgac ggggtgccgt cccgacgata acggtggcgg ctgcgggtac aaggacgtga 240  
 acaagcccc cttcaatagc atgggcgcac ggggcaacat ccccatcttc aaggatgggc 300  
 tgggtttggg gtctgtcttc gagatcaagt gcgat 335

<210> 41810  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-D11

<400> 41810

cggacgcgtg ggtgcagatc accgtcgtct tcaaccactt cggcaggggc ctggtgcagc 60  
 ggatgccaaag gtgccgctgg ggcttcttcc acgttgtcaa caacgactac acgcactggc 120  
 tcatgtacgc cattggcggc ggcgacgcgc caaccatcat cagccagggc aaccgctaca 180  
 tagcaccacc aaacatcggc gccaaagtga tcaccaagca ctacgcggaa gaaggcgtgt 240  
 ggaagaactg ggtgtggcac acggaggacg acctgttcat gaacggcgcc atcttcaata 300



cgctccggcgg cgcccccaag caggtcgcaca ccaacgagtg ggtgaagccc aagccaggaa 360  
cctacgttac a 371

<210> 41811  
<211> 261  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-D9

<400> 41811

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gaggagggta ggaccatggc atacgacaat acaccgaaag cgcccttcga tgctaccact 120  
cctaacccca actccgcctc ataccatac tcattcattag atgcgcccta caacagcagc 180  
ttctacgact agacacaaaa acctcttcat tctctggaat aactaacagg atatacgttg 240  
caccctgatg atatacaaac a 261

<210> 41812  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-E11

<400> 41812

gagagagaga gacgcatgcc cgccggcgtc gatcgaggag ggaggaacca gagacccggc 60  
ggcggcgacg atggctccgc gcagctcatc ggcggcgacg tgctgtgcc tcgctctcgc 120  
cgcggccacg ctggcgctgg ccacacgtgc gcaaggagga ggaccatcgg catcggcggc 180  
ggacctggac aaggtcacgg ccgagacctt ctctgacatc gagatcgacg gcaagcctgc 240  
agggccgcatc gtgctgggac tgtttgggga caccgttcct aaaactgcag agaactttcg 300  
agcactttgc acaagggaga aaggaattgc caagtccggc aagcctctgt ggtacaaggg 360  
gtcgacgttc cacaggatca tgcccggggg catgat 396

<210> 41813  
<211> 382  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-016-Q1-K1-E12

<400> 41813

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gggcggaaga ggatgagcgc gtccaggttc ataaagtgcg tcacggtcgg ggacggcgcc 120  
gtcggcaaga cctgcatgct catctcttac acctccaaca cttccccac cgactatggt 180  
ccgacagtgt ttgataactt cagtgccaac gttgtggttg atggtaacac tgtcaacctc 240  
ggcctctggg aactgcagg tcaagaggat tacaacagac tgagaccact gagctatcgt 300  
ggagctgatg tttttcttct ggctttctca ctgatcagta aggccagcta tgagaatggt 360  
tcgaaaaagt ggatacctga ac 382

<210> 41814  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-E9

<400> 41814

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ccgcgcgttc ccgtgcggca actggccgcc gccgccgcac tacgccagggt gccaattcc 120  
tcgtcgggtc ctccgccggc gacgagcacc caccagaaaa ctggagtgga ctctacatgt 180  
caagacagta tggcgccagg aagcaaggcg gagaggaaag cagcactaga cgctggcgca 240  
tggatgttca atgtcgtcac atccgttggt atcatcatgg tcaacaaagc cttaatggcg 300  
acgcattggt ttagtttcgc tacaacgttg accggacttc atttcgcgat gacgacctg 360  
atgacattag taatgaaatg gctgggatat att 393

<210> 41815  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-F10

<400> 41815

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taattttccc aactcagaac tgaagcacgc ttctacttcc tttctcggct ctccacaacca 120  
 tttcccctcc cctcgttccc aactattgga actgaagcat ataggctctg aggagaagca 180  
 agactgaata aggtcaatat cttgggctaa caaggctgct attgttggct ctgaggagaa 240  
 gcatcatatt ctcccatgat tactcttggg gggttgtctg catctcattt tgctctgaga 300  
 aagaaaattt tctctctggg tcaactgacc gtactgttct cttatgggat caacgggctg 360  
 aaaaatcaca ggtttgacca tataatatat a 391

<210> 41816  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-016-Q1-K1-A12  
 <400> 41816

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 tgggaaacca tattcagcgg gtcgtctcat gttctccgc ctctcacaaa actatgctct 120  
 gcattcttgt catcgtctgt ggagaaacgg cctgttgcaa acgagtgagc cgccctagaa 180  
 cattgtcttc tcatacaacg gtaggtatac tcgccagttg cagaatggaa atgcggaagg 240  
 aaatccgtcc gtgacgatgc atatgccac ttgaagagtt cagagatgct gggatgatgcc 300  
 atctgaggtt ggttatggtt atacagatat cacacggccc acgaggatca ttttgcagcg 360  
 atactcgacg gccaacctac tgatcgcagc aattttgttt tcttctccgc ttgacatgta 420  
 atcctgacaa gtaaactaga aaatc 445

<210> 41817  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-015-Q1-K1-G6  
 <400> 41817

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 tgttagccta tgcattctcg tattacttgt attgcatgga gatactactt tggcagaaac 120

ttgcagggag tttgctaaat ggcattcatt ctgctttagt gcaatgtgca aggcaaattg 180  
 ctttatagaa ggaaaaagct ccgatgggtc ctatgcaaag ggatatagat gtgattcaca 240  
 tggatttcat tctatgtgta tttgcctttt gtgtaaaagt tagttatctt aagacaagcg 300  
 gggatatatt ctatgttcat atccgtcatt taggggtgtg ttcaaataat tttatgggat 360  
 aataattaac tagtttgttt acttctagat atatgtaata ctacttaaata aatccttatt 420  
 t 421

<210> 41818  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G7

<400> 41818

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 accctcggct cgtccttcgc gatcaatgtc gtacctgctc gtacgacctc gtagcgccgt 180  
 catagactgt ccgatcggac agagcagcta ctagcagccg tatgccgacg gcgacaccta 240  
 ggaggaagac gatgaggagt ggaagctcat gcgcatgctc accgaatgac gacgtgatca 300  
 agagctatcc gct 313

<210> 41819  
 <211> 385  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G8

<400> 41819

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 tctcaaccag gccaccgtca gctgcgacct cttcgggtgac aaccagggct accgcgagct 180  
 gtcagagctc gccgagcatg cagccaatcg cgccgagggg gccaggctca gggagctgca 240  
 cacgctgaaa ggacacgtcg agtacgtcgg ctagctcaag ggcttatgca ttgacaccat 300

tcagcagagc tacaccgctg atactcgact cagaagacta gctgatatgt tgtgcaaact 360  
tattcaatgc acacacatct atata 385

<210> 41820  
<211> 160  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G9

<400> 41820

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tgggtattct taaagggtgt acccactttt ggtattaaaa attttttgaa aaaaaagggtc 120  
ctgaagaata aacatttttg tcttattgcc ttggttttat 160

<210> 41821  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H1

<400> 41821

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tcgtcgatcc ggttgcgacg cgggtgtgcta gaataactac cgaccatggt ggaggaggag 120  
atcaccgagg gcttgaagaa cctcaccgtc accggagacg cggcggcttc gggcggagaa 180  
gggcagagga ggggcggcgg catcagcagc aaccgcatcc aggtgtccaa caccaagaag 240  
cccctcttct tctacgtaaa cctcgccaag aggtatatgc agcagcacgg cgatgtggag 300  
ctatccgctc ttggaatggc catagcgaca gttgtgaccg tggcagaaat tctgaagaat 360  
aatggatttg ctggtgaaaa gaagatcagg acatctactg ttgacataaa cgacgaatca 420  
cgagggcg 428

<210> 41822  
<211> 176  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H11

<400> 41822

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ggaggaagcc attccggggc cactgccgga ccattgaacc accgcaaaaa attccaaggc 120  
cacattggac gccaaaaccc ggaaggcttt caacggcttg ttggccgccg ttccgg 176

<210> 41823

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H12

<400> 41823

cggacgcgtg ggcggacgcg tgggtgctac aaaaaataaa ggtggtttga gggaaagcgt 60  
gtgggtaact cggcttttgc caaaagcatc agtagaattg atggaggcaa caccatgcaa 120  
tgtagagaat gctgttagtc cacaggctgt gggtgacaag ttgtgttgc cacctcttca 180  
gaattttaat ttggagaagg aactaaataa tatacaatac ttcactggaa gaggaagcag 240  
cgatggtgta acaagtagta aatgtccagc aacgcctcca gaggaaccta agcaatctga 300  
aacaatggct tctgtttttg caaagagatt ggatgcactt agacatgcaa acacctctgc 360  
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<210> 41824

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-H2

<400> 41824

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tgacatgtcg tgtagtttt actatggatg catggacatc tatacaaaac aaatcgtact 120  
tatgtgtcac agcacattgg attgatgata attggaacat gcaaaaaagg attatcaatt 180  
ttatgcatgt agaagacagc catgatggga taaaattgag tgatattttt tttgtaaatg 240  
tgctcaattg gaaccttgat aagaaaatgt ttgctctttc tttggataat gctgtggcaa 300  
acaaggttgc agttgatata gtgatagata atgctaaaga cttgctcata tgtggtggaa 360

agttctttca tgtagatgt gcaaatcata tattgaacct ttgtgctaaa gatggcttan 420  
cagtaatgag aaatgc 436

<210> 41825  
<211> 141  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-015-Q1-K1-H5

<400> 41825

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gtggttcttt tacctacgcg tgggtgtaca caaaatacat accatccaca ttaacgacat 120  
caaccactgc tggaacaacc t 141

<210> 41826  
<211> 436  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-015-Q1-K1-H6

<400> 41826

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ctcagggagc atattaagaa acggccacca ttggctacct ctgagaaagt tcaacaattt 120  
gtgagggcac gggggagaga atcaatgggt gcaggatttt atcacgaagg ctatgaagat 180  
ccattgctta tgctgatgag aaggagaact gttcatgctg gactagtgtg gaaggggtgag 240  
gaaggtgcgc tttccttgac aaccaaggaa agatcagccc atgcatcaaa aggactccct 300  
gttaaccact gttcanggtt tcggacacca agcggcataa atttctctga gactgatggg 360  
attcctagag aaagcttcan ggtcattgtg aatgcccagg aacttggttn tgaatccact 420  
gaaactccaa gaactg 436

<210> 41827  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H7

<400> 41827

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cttcactaaa cacagcgagc aggggtgacag gtaccgtgaa ttggcacatc gggttgatga 120  
tgcccttggga ttcatgggtg cagctgggct aacagtggac cagcctttga cgacgatgat 180  
cgagttcttg acctcacatg agtgccctct cctaccttac gagcaagcct taacccggca 240  
agactccacc accggtcttt tctacgactg ctccgccac atgctctggg tcggcgagcg 300  
caccggcag cttgatggcg cccatgtgga gttcctgagg gggatcgcca acccccttgg 360  
catcaaggtg agcgacaaga tggagcccgg cgagctggtg aagctgatcg acatactgaa 420  
cccgacgaac aa 432

<210> 41828

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H8

<400> 41828

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tcttggtggt tctgctcttg cacaagcatt tgatcaaatt ggaaatgact gcccgacat 120  
tgatgatggt ctgtacttga agaaggtatt tgaggctatt caagaattgc tcagtcaacg 180  
tcttatttca gcaggccatg acataagtga tgggtggcctt attgttagtg ttcttgagat 240  
ggcatttgct ggtaactgtg gttttaagct tgacatagac ttagaagata ggagccttat 300  
tgaaggactt tttgcagagg agcttggcct cattattgaa gtacactcga aatatctcaa 360  
cattgtgaag caaaagcttg aaatagcagg catttctgct aatgttattg gagacgttac 420  
tagctcacca g 431

<210> 41829

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-A10



<400> 41829

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gttcttcaag tacgagaaga ggattaggac ggcagaccct ccagagaaga tctttgagta 120

cttcgcatcc gtccacagcc cagaggggtga gatgtacatg ttacctaccg acctgatgag 180

ggcgggtggt cctgttttcc cctcatctga gtccaaaaat gtcagggaag ggagattgaa 240

aggggagcgc caccctggcg agctacaatg tgctccatct gagtttttca tgctattcga 300

tacaaatggt gatggtgtca tctccttttc tgagtatatc ttcttt 346

<210> 41830

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-A11

<400> 41830

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ttgccacga tttcaagact gatcttcgtt tccagagcca tgcgggtgctt gcgctgcagg 120

aggctgcgga ggcgtacctg gtgggtctat tcgaggacac taatctgtgc gccatccatg 180

ccaagcgcgt gaccatcatg cccaaggaca ttcagctggc taggaggatc cgtggtgaaa 240

gggcctagat tctctgttta cggctactgg gagtggctcc gtagtatggt ttgcatctgt 300

tcgatgcttg cttttgtgga agtttacatt tgtgggtggt cgaattcgta atattcatcc 360

gtagtggaca agtggttagga agtgctccat ctgactattg tttaaattta taattgaggt 420

cattagtgt 429

<210> 41831

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G5

<400> 41831

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ctctcttaat tcgttgtgtt cgtggtgaca taatctgtgt gcggaccgaa tttagaataa 120

agtacaggcg tccgtctgat caaataagca ccggtgttgg tgctctatag atgaatatat 180  
 ccggtgattt tcggcatggg aggcattggc acatttttgt ctgagttctg gcggtagcaa 240  
 gaccggagta ataaccatca ggcgtttcta tgttggttac gtgccgcacg catgccgggc 300  
 gtgctggagga tttatgccct gagaggctga gactatctcc ctgctccctt attttaaaca 360  
 gtatcattat acaattccgc gtt 383

<210> 41832  
 <211> 221  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E9

<400> 41832

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 tgaactggaa gttgcatctt ctgagctgt ggctgaagaa gacgcctcca ataacagcaa 120  
 ggacatagct cagggcggtg aaaatctgtt ggaagatgca cggaattcaa gttcaagagt 180  
 ggtctcaacg gggaggctca cttcggtgag ctacagatgc t 221

<210> 41833  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F1

<400> 41833

ttcataccac ccacgccata actctagaat cgctttttca aaccaaccga ccgattaacc 60  
 caccacctcc tcacctcatc ttcgctctct tcctcgtaca aagccttgtc ctttcatctt 120  
 gagtcattgg actcactttc acgcatccat gaacggcatc aaccccaacc tcggattcct 180  
 gtcgtactgc aacatgtata gctactcgat gtgcatggcc accgtcatat cgtctatctt 240  
 cttctcgttc ctggaacgct actccttcat ccacct 276

<210> 41834  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F10

<400> 41834

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cgaggtgaca ccggcctttc acgtcgtcga ggtgaagaag tcggcaggcg acacgctgga 120  
gtatgagatg ttctgcagca agggcctaag accttcactc agcgacatct gctggagcag 180  
ccgatctgag gagaacatgg ctcccttcagt ggttcagcca tcacaattgg agccatcctc 240  
ttagaccgtc tccgacagtt tactcacccc tcttagtcga ttgttattta agtgcagtct 300  
cttcggagat gcaattacag tccatcctct cttctctttc ccctttctca aagagctagg 360  
accttgctcg actgagcatc aggctgtagg gctctttgtg atcatctttt gccagttttc 420  
ttctt 425

<210> 41835

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-F12

<400> 41835

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cggcgccgtg ctgagcgct ccgtgctctc cttcttcgcc tactacctgc agtaaaatta 120  
aaggaggatc ggaggagag gctgctggct gccattgcct gtattcggtt ggatcccgtt 180  
tatatatata tatatatatt taagtacttt aatttgggtc tgaacatgct gattgatcca 240  
ttcattttat ttgctttgcc atttctcccc tttctgttaa tttcgatatg taaagagggg 300  
agaatgggag acactattcg tttggacatg acaatcggaa attaataat acccatttgt 360  
tngtt 365

<210> 41836

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F2

<400> 41836

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cgactcatcc gggatcacga tcaccaaacac cgtcattggc gtcggtgacg actgcatctc 120

catcggcccc gggacctcca aggtgaacat caccggcgtg acctgcggcc ctggccacgg 180

catcagcatc ggcagcctat ggcggtacaa ggacgagaag gacgtcacgg acatcaacgt 240

caaggattgc actcttaaga agacgatgtt cggcgtccgc atcaaggcgt acgaggacgc 300

cgtcttcgtg ctcaccgtct tcaagatcca ctacgagaat atcaagatgg aggactcagc 360

caaccccatc ttcacgaca tgaagtactg cccaacaag ttgtgt 406

<210> 41837

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-F5

<400> 41837

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acgccagggt ccttggaaca ctatatccag gagcgacgaa gtgatccacc cgccagccat 120

ggagatgaag aaggtcctct gcgcgcacct cgtcgccgcc gcctcgcca ccgtcgtgct 180

ggcctcggtc gctccgagg cgccctccga ggcgcccgcc ggcgcggccg gtggtgcggc 240

tggccctagc gcaagcggcg ccgcgcgtgt cgtcgtgccc gccgtcgggg cgctcgtcgc 300

ctccttcctc gcctactacc tncactgagc gacgacgcgc ggtgcggcaa cgttgggatg 360

catcgtgttt ggttcacccg attaattaat tgggtttttt atttacgtgg tttgcgattg 420

gttaa 425

<210> 41838

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F6

<400> 41838

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gcaccaacaa caagaccatg gccgtatgca agaacgctaa gggcagcgcc aagggttgcc 120  
tcaaggagct cgcattgcttc tagaaccacc atcgacccat ctctctagtt atacaatgtg 180  
tttggttgtt ggatgctgag agattgggttc tcagctcaga tgcaagctgc gcctagcctg 240  
tgtaggtttg tgctggtaca ttgagagctc ttatttattt gctttgattg caattaacca 300  
ggatgaccat agcccttggt tggtttgctg tttttataag ttgcatgaac acaacttctg 360  
tttggtt 367

<210> 41839  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F7

<400> 41839

cgggccgacc cactcgtccg gctctaccaa gatcccattc acctttgttt tccatggacg 60  
acttcaacat caactggagg ggctccaaca acaagaccat ggccgtatgc aataacgcta 120  
atggcaactc caaagtttac ctcaatgaac tcgcatgctt ttaaaaccac catcgaccca 180  
tctctctaga tatacaatgt gttttgttga ttagatgcta atagattctt tctcaaa 237

<210> 41840  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F8

<400> 41840

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aggctctttt ggtcagttaa tggcccacga attctgcagg ttggttatga agatgaaaag 120  
gacccgaaag tgatggaagc atatgaactt attggttccc tgcttggttg gaagggtgaa 180  
gatgtacaag ataacaagaa ggaacaagga gagaagcctc aatgagcccc gccgctgata 240  
aaaacgggtgc tgtattttttg tttgtctaga aaacatccct cgccgtgtgc aatagcaata 300  
gtatgatatc ccaacttgtc aactgttgca actgcaagag ctctgcagtg ttgcttttgt 360  
aattgacgaa tgtatctgga aaatttgac gtattggccg tcttttcctt gggtttgagc 420

tctctgacaa ttc

433

<210> 41841  
<211> 285  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-015-Q1-K1-F9

<400> 41841

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ttttctcttg ttgaatccgg ctttaattca tgactagaga ctttagagta ttatcagtc 180  
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tcagcttgtg attcatcagc aagacgtagg ttgtcatgta caana 285

<210> 41842  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G3

<400> 41842

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cgagcccagag gtgatgtacg aggtgctgaa gcagaggacc gactgcgcca cggtcgtcga 120  
cctcgcccgg gccttcggcg caatgccgta cctggtgttc gaccccaggg ccgccgtgat 180  
gtccggcgcc gagagcagcg actcggagcg gtcggccgcc ggcgcccgtcg aggaggaaga 240  
cgatgaggag tgggagttca tgcggggct caccgtctga tgacgtgccg gtcggtccgc 300  
cccgggtgaa acaaggcgag ttcgtcgcca 330

<210> 41843  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G4

<400> 41843

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ccagcaccaa gaggctagga aggccagggg caggggtcct cgccctcgcc gcaatggagc 120  
tgctggccaa ggcgcccgtg ctgggctgcg ccgggaagat gcagaggcag cggcaacggg 180  
ggtcgcgct gggcaggtgg atttgccgtg ccgtggcgcc gccgaggggtg cggctcaggg 240  
acggccgcca cctggcgtag gccgagtcg gggccagcaa ggaggacgag aggttcaagg 300  
tcgtcttctc ccacggcttc accggctccc gcctcgacac cgttcgtccg gcgcccgaag 360  
ttgoggagga gctgggctg tacatggtgg gtttcgaccg cgccgggtac gggcagagcg 420  
acccaacct caccggtc 438

<210> 41844

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E7

<400> 41844

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aagggcaaac caaccgaccg attaacccac caccgcctcg cctcgtctcc gctctcttcc 120  
tcggacaaaag ccggggccgt tcggcgggag gcaggggacg cacgggcagg cagccatgaa 180  
cggcatcaac cccaacggcg ggttcctgtc gtacgggaac atggagagct acgcgatgtg 240  
ggtggcgacc ggcgtggcgt cggccttctt cgcgtccctc gagecgtgct cctgcatcca 300  
cctccacacc gcggaggacg acggcgctga ggaggaggag gacctcgagg agggccgccc 360  
ctccttctcc cgccgatcc ctgagtacta ctacgaccgg tccg 404

<210> 41845

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D11

<400> 41845

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agtgcatata tatatatata attctgccaa gacaaaggta atggagtcgt cacgcatgtt 120  
ccagccggcc atcatcctgc ttctcctgct cattgtgacc accgatgtgg cgcagcgccg 180  
gagggaaatgc gagaaggaca gcgagcgatt ccttggggca tgcagggcgt cggacaactg 240  
cgccaacgtg tgccgcggtg agggcttctc 270

<210> 41846

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D2

<400> 41846

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cgggatgggc cccgggaagt ggtcgccgga ggtgaggaag acgtacaacc tgctggacac 120  
ggtgagccgg cacacgatcc aggtgtaccc ggggtcatgg acggcaatca tgctgacgtt 180  
cgacaacgcg ggcatgtgga gcgatgcatc caacatctgg gagcgggtact acctcgggga 240  
gcagttctac atcagcgctg tctcgccggc gogatcactg cgcgacgagt acaacatgcc 300  
cgacaacgcc cttcgctgcg gcaaggctgt ggggctgccg ctgccgtcgt cctacgcccc 360  
cgcgcgctaa gacgacgaaa gcctcgtttt cttctcgtgg tctgaccatc caatccaaac 420  
tcaaaagaac aaa 433

<210> 41847

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D4

<400> 41847

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ccctcttgag cccccatat tagataagct cataaatgca taacttgcat aaatttaaga 180  
gagaaacca tatatgcggc atctattcac agatggttgt cttttactaa aattcagttc 240  
tgtccatttt aatgcactat 260



<210> 41848  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-015-Q1-K1-D5  
  
 <400> 41848  
  
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 ggtgggaaga agaagatgaa gaaggccact tcgctctccg agctgggctt cgacgccggc 180  
 gactcgtcgt cgggcttctt ccgccctgtg tccggcgact cgtcgacgcc gacgtcgag 240  
 caccaccggc ggaggctgac caagggtgtc gtcacggcg cgggtcaacgt ggggatggcc 300  
 atcgcgcaga ccacctgac gcgcgacctg gccgacgaga tcgcgctggt ggacgcggtc 360  
 ccggacaagc tccgcgggga gatgctggac ctgcagcacg 400

<210> 41849  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-015-Q1-K1-D9  
  
 <400> 41849  
  
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 aaatcccttc gtggatggaa ggggtttgag ggacaaatta gtttattttc atottaatcc 180  
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<210> 41850  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-015-Q1-K1-E1  
  
 <400> 41850

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gaggtatcgg cgttggttctc gaatgtgggc agcacttttg ctctaccaat tgtccctctt 120  
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tcgatatggg gttttggctc gtatctctgt caaaactatc tcgatgctaa gaaagctgga 240  
agtgcataat gggattccta gtgtctacaa ttttcttgtg atagattgct ctttatcggg 300  
ttagtttggg tcttgcgaga tgataagtggt ttattactta tgttaattta agtatgtttt 360  
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<210> 41851

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E10

<400> 41851

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tcaccgggtt cccacggaa gaagacatgg agatcacggg ggacactatc gagctgggtg 120  
tgccagcggg gctgacggcc gtgctgatca agaacctcta cctgtcctgc gacccctgga 180  
tgcgcgggtc catgagcaag catgaagacg ggcgccacct gccagcctcg gactttgtca 240  
tcggagaggc catggtgaat ttccggtgtg gcaagggtgg cggtcgcacg caccctgagt 300  
tcaccgccgg tgatcttgtc tgggggctga gtgggtggga ggagtacacc ctgcgcaccc 360  
agccggaatc gctgcacaag atcaaacaca ccgagctgcc gctcttctac tacacgggag 420

<210> 41852

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E11

<400> 41852

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ccacctaagg aggtagggca acatcatcat cacggactaa aacatcgaga ccaccgacga 120  
cactatctat cattgtctcc catccaacct cactcttcg 159

<210> 41853  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E12

<400> 41853

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tggcaagcgg agcaactcct cgcattgtctc cgtcaaggac gtcacgttcc gcaacatcac 120  
cggcacgtcg tccacgcccg aggccatcag cctgctctgc tcggagacgc agccatgcag 180  
cggcgtctcc ctcatcgatg tcaacgtgga gtacgccggc aagaacaaca aaaccatggc 240  
cgtctgcagc aacgccaagg gcaccgcca gggaagcatc gaggcactgg cttgcctggt 300  
ctgatgatga ctttcctttt gcatgcatgc atggtatctc atccttgatg atgatctagc 360  
tcactagttc tttttaattt ccgcttcatt cgcttttcca aattcgattg tgtttcagcc 420  
aagtt 425

<210> 41854  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-E3

<400> 41854

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cagggccggt tgcagggtgaa ggtgatattg ctgcaccatc tgggagagga ggggctcagc 180  
agtacctgag agagctgaaa ctatgtaaat tatctgaccg cgaaggagta cggccagtgt 240  
taagccagta aactggcgca tggttggtcca gagtagttaa ggtaagaatg tagcagggtg 300  
agactggtaa atgcctaggg tcgttttttag ttgttaccag tattttgtaa tgtaatgttc 360  
gtcgggtactt tccagcagta gtgtagctgc tcctgttttg ttcgcccgcc atgatgtana 420  
tgatca 426

<210> 41855  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-015-Q1-K1-E4  
  
 <400> 41855  
  
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 ccaccgcccc ggctgtctcc cggccagatc cctctcctgc aagggtttct ttagcgacgt 120  
 ggtcgggaga aagatgaatg gggggtttcc tctccagggt cctcctgctg gcttttggct 180  
 atccctatcc ggcctatgaa tgctacagaa ccgttgacct gaccaaacc cgatttgagc 240  
 agttcatatt tggtagtcag tattgaattt a 271

<210> 41856  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-015-Q1-K1-E5  
  
 <400> 41856  
  
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 atcgacctgc ttggccctgt agaggagacc ttcttcgaca tctacgacag atatgaacct 120  
 gtcaacaacc ctgacgacga ctgctgtttc ctcaaaata gctatgactc caccacccat 180  
 ttgagacga cggtaagga tgtgctcgcc ttgtacaaca agatcactgg aaaggagctt 240  
 gatctctcag tcgatttgaa cgcggctagt gctactgagc aagaagctgc ttgaacacct 300  
 cggcggcctc tttttttgca gctctacaca atagctattt cttcgattgt ttttttaaaa 360  
 tgttccatag atggataagt ttattgatga aatccattat tgcattgcatt ttggagttcc 420  
 gtctttgtca cat 433

<210> 41857  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-015-Q1-K1-E6

<400> 41857

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gggtgttttt catcctagcc gtggtatgtg ccgtatgcac agcgaagagg acaggagcca 120  
acaaggaaga atcggcggca gccccgggtg gcgctgctgg aggcagcggc gggacgttcg 180  
acatctccaa gctcggcgcg accagcgacg gcaagacgga ctgcacaaag gcagtccagg 240  
acgcgtggac gtcagcgtgc gaagcgaccg gaagcgccac ggtggtgatc cccaagggcg 300  
actacctggt cggccctcta aacttcactg ggccatgcaa ggggagcaac atcgccatcc 360  
agctggatgg caacctgctg ggatcaaacg acctgaacaa gtacacggag agctggat 418

<210> 41858

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B4

<400> 41858

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agtgccttgg cgacccaatg aaacccttgt acaagggcgg cattgtccag aacagcgagt 120  
tcaacagcgg actgatgggc tggtcgacac accggaacgt caaggccggc gtgagcagat 180  
cgccgtccgg caacaagttt gcagtgggtg atggggcggg aagctacgtg agcagcagcg 240  
gcaagtcctt accgtccac agcgtgtacc agagaatcca gatgcagagc gacaggcact 300  
actcgctatc agcatggctg caggtgtcga acggcacgtc ggcacatgtg agggcgggtga 360  
tcaagtcctt caacggcgaa cgcgtcatcg ctggtgccat c 401

<210> 41859

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B5

<400> 41859

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tctgtgtcgt gcatgggtgag aaggcaaagt caaaggacaa cgatgcaaaa gcgtccgggc 120

ccggtgggtc cttcgacatc accaagttgg gcgccttcgg caatggcaag acggatagca 180  
cgaaggctgt gcaggaggcg tgggcatcag cgtgcggcgg caccgggaag cagacgatcc 240  
tcatcccaa gggcgacttc ctgcgacgac cactcaactt cacaggccca tgcaagggcg 300  
acgtgaccat ccatgtgaat ggcaatctgc tggcgaccac ggacctaagc cagtacaagg 360  
atcatgggta atggatcgag 380

<210> 41860  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B6

<400> 41860

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ctcaagggca tcttgggtta cgttgaggag gaccttgttt ccaccgattt ccagggtgac 120  
agcaggtcta gcattcttga tgctaaggct ggcattgcct tgaacggcaa cttcgtgaag 180  
ctcgtgtcct ggtacgacat cgagtgggga tccagaacct gcgtgggtcaa cctgatccgc 240  
cacatgacca gcaccaacta aatgaagac ctaagggcct ggtaatccaa ccaagtgtgc 300  
tctttccccc ccgaaaaaag atgcttccaa gattaaattt ttttcattgg aattgcttaa 360  
acctaggttg ggggtatcct agtggttggg tgagcattaa tggctcatat ttggtcaggt 420  
ctatgtgtcc 430

<210> 41861  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B7

<400> 41861

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tcgtcgacct ttgccatggc gtcgatgatg agttctcgcg cgggcgcggc ggcgcccgga 120  
ggaggagaac accgccgtca gcacgtcacc gtggcggtgc gtgggctgac gcggccgagt 180  
accaggcccc tgccgggagc agctggccca cgggtccggga cgccgaggcc gcggggacct 240

gctgcagctg cgggcggctc ttcgtcttcg tcgccgacgg ggcgcgcggg gccggagtgc 300  
aactgggtggg gcgctgccgc ggggcagcag gcgacgccga ggcggtcgag gagcggcagg 360  
gccgcggctc gcgcgtgcc caccgggcaag gggaaccgcg agctgggtgag acgggcgctc 420  
acg 423

<210> 41862  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-015-Q1-K1-B8

<400> 41862

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gtaattgaca agtcatttgg ttctgacaca gcagtcgagg aggctcaacg tgcaataaat 120  
gctgctcatg tggaagctgt aagtgcgtgag aatgggtatag gtcttggtcaa gctaattgggt 180  
cggcacagtg gttttattgc acattatgct actctggcta gcagggacgt ggattgttgc 240  
ttgatcccag aatcaccatt ctatttgga ggcgaaggcg gacttttttag atacatagaa 300  
aaacgtttga aggacaatgg tcatatgggt atcgttgttg ctganggtgc tggacagaaa 360  
cttattgctg aaaccatgca gtcaattgng aaagatgctt cangcaacga gctgcttctt 420  
gatgt 425

<210> 41863  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B9

<400> 41863

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ctcatgtgca cagtcacttt ttctcataa tacatccagg tggggttcct ccccagttc 120  
actctataaa aaaactatca cacctacggg cacaagggtt cgtataaata cagttagggt 180  
gggacgggag cgagtaattc tcagactcct catgtgcaca gtcacttttt cctcataata 240  
catccaggtg gggttcctcc ccagttcac tctataaaaa aactatcaca cctacgggtca 300

caaggcttct accccgctga tatatatata caaatggatt gcataaaaga aattatcgag 360

ggcgagaaca ctctgccgta tcagtcttga taactctggt gttgtaagaa ccac 414

<210> 41864

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C1

<400> 41864

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agccaacaag gaccacagcg tctatgagct gcggtacttc aacattgctg agaacgaagg 120

cgaggaagaa gattagactg cattgcactt atatctcagt tttgaactca ttgaatttgg 180

tacctgtacc cgtagttttg caaatgcccc catgttatgc tctggtgaat tttggatggt 240

ttatttattt gaaaagtcta tgcatttggc tgctcctata tgaac 285

<210> 41865

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C10

<400> 41865

gtttgagctg gacgtgctgt tggaatctgt tagtggtaca attaagcgtg ttgaggagtt 60

ggtggtaagt atggaaggca actcactgaa acctgatagc tctatccacc tcgatgaaca 120

tttgactagt ttgaatatga ggtgcattga gtggctatat ggtgaccatg gacttgatgt 180

tgtggatggt ctttcaaaaa aatgctggtg tgacat 216

<210> 41866

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-C12

<400> 41866



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 cagaaaagta tccatctcaa actttcttca cennntcgca atgggagaaa gggatggann 120  
 tgactttcat tannacgctg nnttcaagaa tgggtgannt gaggagaaac acatgtccca 180  
 tggtaatacc aatacgtatc atgtgttgca tcctctagtg tctgcatact ccccatatnc 240  
 tgtatgatgc tcgttgaaga aagcaccnng ttgcagaaga atgccagaat accaaagtta 300  
 ttagtcattc tgtactttac tgcaatggtt accaagaact ctgttgctga gggactctc 360  
 ccagctttaa aactgaatat taagagagat tcattccaga aaagacacna atctgcaaag 420  
 aaactaaggt ctcagatgaa attcaggaaa gtcaaaaggg tctcat 466

<210> 41867  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C3

<400> 41867

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 cgcgccgggc gctcgccacg gcggaggtgc ccgcggaggc cgtcgaggac tccacgttcg 120  
 tcgaggcctg gaaaaaggtc gcccccaaca tcgagcccc agcgacgccc ctctccctca 180  
 tgcagccgcy ccgcgccacg ccagctacca tccctaccaa gctcaccgtc aattcgtcc 240  
 tcccctacaa gtccgagatc gccaacaagg aggttgacat ggtaattgta ccagctacaa 300  
 ctggtcagat ggggtgttttg ccaggccatg ttgccacaat tgcagagctc aagcctggtg 360  
 ttctctcagt acatgaagga aacgatgtga gcaagtactt tgtgagcagt gggtttgctt 420  
 tcgtccatgc 430

<210> 41868  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C5

<400> 41868

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ctttttatgt ggcagcaata gtattattca atctcttatg agctgcagct acgtacaaaa 120  
 agaaacaaat agaagaagaa gggaaaaaac gcgacaagaa cctgggcccc gaggcctccc 180  
 gccagggaa acccgccaac gactacaccc gcggtgcaa cccgatcacc ggctgtcgcg 240  
 gctgatcata tctctctggt cgatgtgcgc gcaatgtcaa tgtcgcacgc gcgtgcaggt 300  
 accaggcctc agcgtgtggt gccgcgtgtg tgtatatatt acacacatgc attatacatt 360  
 ggtcgtcgat cgttactgta tgcattggaa ctgatgcttc ttgcctcgca tatctgacgt 420  
 gtatactgat gtatgt 436

<210> 41869  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C7

<400> 41869

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 gccgaggcac cggcagagtc accgaaggca ggcagtcttg ccaaggcacc ggccgagtca 180  
 ccgaaggcag gcagtctgc agtcctgcc aaggcaccgc agtctgctgc cactgagaact 240  
 gcccccgcta aggcacctca agccggctac acccccgccg atgacgctgc cccatcgctg 300  
 tcgtcgctta ggaagtctgg tccagctgcc gcgccgacca ccgtcgcttc tacaccgtct 360  
 tcttccacgg acgaggagtt gagcccttcg ccgtcggcat ccacc 405

<210> 41870  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D1

<400> 41870

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 taaaggttgt ggagacagca cttgccttgc aggaggctgg atgcttctcg gttgtgttgg 180

agtgtgtgcc tgctccagtg gcagcagctg caacatcagc attgaaaatc ccaaccattg 240  
gcattggggc tggaccattc tgtagtggcc aggtcttggg gtaccatgac ttgttaggga 300  
tgctgcaaca cccacatcat gccaaagtca caccaaagtt ctgtaaaciaa tttggtaacg 360  
tgggcgatgt tatcaacaag ggcgtatcag agtacaagca agaagtgga 409

<210> 41871  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B3

<400> 41871

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catcttcgcc tttcgggtcc tacgtcattc gcccgaataa ttgacatggc cacaaccatt 120  
gtggagcaaa gtgggtggcca ataccatgtt ttagtaatta ttgctgacgg gcaggtcaca 180  
agaagtgtag atactgaatt tggtcagtta agcaccagg agcaaagac agttgatgct 240  
attgtacaag caagccaatt cccattgtct ataattcttg ttggagttgg agatgggtcca 300  
tgggatatga tgaaggaatt tgatgacaat ataccagcta ggtcttttga caatttccag 360  
tttgtcaact tctgtcgat catgtcaaaa aagataagtc aaagcaaaaa ggagacagag 420  
ttcgcccttt cagcact 437

<210> 41872  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H6

<400> 41872

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cagcagccgg cgtgtgacgc tggtagtctc cggctccgc ctgctgcttc tgggttgggtg 120  
tgcgagggcg gtagtggagt tggtagctgc tgatgataat atcgccggcg ccgctgctgg 180  
cacggcggtg gacgatggcg agccgcctca gcagtgcgcg accccgggtga gcgtggagga 240  
ggcgtgccgc ggcgcgtccg agacgcacgc cggcgtggcc tacgaccact gcattggctc 300

gctgggcgcc gacccgcgca gcatggaggc cggcaacaag aacatgcacg ggctggcggt 360  
gctggccacc aggatggcca tcgaccacgc cgtcagcacc gagtccaaga tcgacgacct 420  
cgcgagcctt gaa 433

<210> 41873  
<211> 463  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-014-Q1-K1-H8

<400> 41873

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cgagacccgc cgtcaagtct cgtccgagta ccttcataca ccacgcgacg gggctgttca 120  
cagtatcgac tatcatgcgc gcgatcgtgc gcgctccttc caagtctcgc gtcccaccaa 180  
gtatggctcc ccatacgtca ttccgcgtcc gatgttctcg ctaccttcat cgatgggtgg 240  
ctatcgatga actccgcgat gaagagcatc agacagccat cgcactatcg acgagctacg 300  
tccttcttca caggtcaggc atgggcccgc ggcataatgg acgtccagct gtcccgaag 360  
cacgtacata ccttctggac acggttagcc gtctcacgat ccaggtgtac cctangtcgt 420  
ggacggcagt gatgatgacg ttcgacaacg tcggcatgtt gag 463

<210> 41874  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H9

<400> 41874

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gtccaagtac catgtatctc aagtacaggg gaacgagcat ttattatgtt ttctccaggg 120  
ttgaaagtgc agttgcgtgc agagaatgaa tgcctaggca tgcagccact cgctctcggt 180  
cggtcgctcc agtcctgctg gcttcgctta tcttccccctt ttatttctcg tgatgacatg 240  
gaatagtcta tctcgtcta gctaatacagg tcgcggaagg aagcgcccag ctctcgggca 300  
cgggcccgac gtcatatatg ac 322

<210> 41875  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A10

<400> 41875

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gttcgctggt cggcgcggcg gaagccgcgg ctgctcaacg ggtaaaggag aaagaggcgg 120  
aggcgtctga ggccgcgcgg gggcccgcg acctggagga ccgggtggcg cggctgaggg 180  
cggaggcggc ggcgtggcat gccaaaggac cagcggatca gtccacagcc gggcgctcc 240  
acgcgcagct gcagaaagcg gcggcgggcg atgcgagggg caa 283

<210> 41876  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A11

<400> 41876

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cgctcatcta ccagtccgac atgcgcgcgc aggatcccgt cgggtggctgc taccgcctcg 120  
tcctcagtct ggagcgccag ctcgagatcg atactgccga gctcaccgcc gtgctccacc 180  
acttggcggt ctgccgccag gctaccacga caaccaccgt gatggcaccg caacagcaag 240  
gcggtggcat ggctgacctc gacgtcacgt cctccaacca gccgtttctc cccaacgagc 300  
agcaagaagt cgttgacgca ctctacgtga atcacgaagc tcacaccgcc atccttcaaa 360  
ccgacgaggt cgtccaccgc cacggtggag gccacagccc caccgatgat catcacggtg 420  
a 421

<210> 41877  
<211> 81  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A12

<400> 41877

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tccgaacctg aaaatcaggg g 81

<210> 41878

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A2

<400> 41878

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actggtgggt tctcacaagc aaacttctta gctgaagggt gatttgggtc tgttcacga 120  
ggtgtccttc ctgatggcca ggctattgct gttaagcaac acaagcttgc tagttcccag 180  
ggtgatgttg agttctgctc agaggtggaa gttcttagtt gtgcacaaca tcgaaatgtt 240  
gtaatgctga taggtttttg cgttgaggac aaaaggcggt tattggttta cgagtacatc 300  
tgcaatagat ctttggaatc acatctctat ggtcataatc gagaaacatt ggagtggact 360  
gcacgac 367

<210> 41879

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-A3

<400> 41879

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aatcgaacct ttgatgatgg aagctcttga gaagattgag aaggatatta agaaaccact 120  
tttaaggagt gacaagaaga acatggccac ccttatggca gagtttgaca agattaacac 180  
aaagcttggc attcggaagg aggatcttcc taagatcgag aaagaacttg aattggagat 240  
tgccaaaagt gagctgactg aacttaagaa ggaatgtgtt gaggcaatgg agactcaact 300  
caagagggag gagttccaag atgaggagat gcctgatgtc aggaaactgg acattcgaaa 360

ctttctgtan gcctgatcga cgataacctt tgaggcattg caaatcacc

409

<210> 41880  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A5

<400> 41880

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tctgttagtg gattaacat gaagaatact atagacatcg aatgaatggt tttattttcc 120  
atgtcattca aacttatttc agtgctggag tgttttttcc agccaaagta attatttatt 180  
cttgaatgta gtgttatctg ctgtcagtgg cttgaaagtt gggctaccaa atacctcaca 240  
aggtgatttc tttgggggta aaatttctcg tatcttatag catggagttt atttttaata 300  
aattatggct tactttgtgt tttcattaaa cgttctttgc agatgctggt gtgatgattt 360  
caattgcact tctttagta ttgttttagtg tacagaggta tgccactagc aaagtggggg 420  
ttgcaattgg cccttct 437

<210> 41881  
<211> 433  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-A7

<400> 41881

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caacacctat cttctcgtcg gatgctgcaa cgacgagcta acctaccgt acaagggcaa 120  
gaccgtcatg acccaggaag agcgatacga atccctgcgg cactgcaagt gggttgatga 180  
ggtcattcct gatgcaccgt gggttctcac acaggagttt attgataagc atcagattga 240  
ctatgttgct catgatgcgc tgccttatgc tgatactagc ggaacagcaa atgatgtcta 300  
tgaatttggt aaaaagattg gaaaattcaa ggaaacaaaa aggacagacg gggtttctac 360  
ttcagatctc ataatgagga tcttgaagga ctataaccag tatgtcatga ggaatttagc 420  
acggngctac tcg 433

<210> 41882  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A9

<400> 41882

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gtacctcctg gcacaccagt ggtgaatgct ctagccaagc agagggccat gctggaaaaac 120  
atcttgcggg cctgcattgg ccttgcccct gagaacaaca tgatgcttga gcacaagtga 180  
agagtttcac gtcccttaat taactaccgc aagataggat gaatggaaaa ggagggatca 240  
agcgaagggtg tgggaataat cagtgactcc tctgagccca acgaagaaat gtcaggaggc 300  
tacaggaagg agaagtgtaa ggagagaaga accagcatgg atatatactc ttttcgaaag 360  
ctatctatct attctttttt ggaaaattga ctctgtttt 398

<210> 41883  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B10

<400> 41883

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cctcgagaaa cctgggagat cgaggctgta atggctggcg caccatggcc tctgccggt 120  
tcaagttcta tgggtgtagc agcagagaat agcaatgaca tatctaaagt gtctgaattt 180  
tctctatgct caatccatat cccgagttga aacaaattcg atctggattc ttatattcaa 240  
taaatagtga ggctgaggcg caaaacattg ttggattgat gactggaaaa catttcatac 300  
gctcacttat tttgtaagct ctctgttatg tgtttg 336

<210> 41884  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B11



<400> 41884

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ggacgacagc taccttgacg agcctgcaat cgacactgtc aagaggatga agctctatgc 120  
agaatcactc gcacgctttc aaggaggggtc cccttacatc taccctctat acgggtctggg 180  
agagctccct caggcctttg cccgcctgag cgctgtttac ggtggcacgt acatgctgaa 240  
caagccagaa tgcaagggtcg agtttgatga gagtggaaaa gcgtatggag tcacttctga 300  
aggggagacc gccaagtgca agaagatcgt ctgccatcct tcgtatttgc cagacaaggt 360  
gaagaagggtt ggaaggggtgg cccgcgcgat atgca 395

<210> 41885

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B12

<400> 41885

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atgtgatcct acattttcaaa aaacacaaac gtgacacca tgctattgct ggccacagta 120  
agggtgggaa tgtggttata ctctatgcat ccataatatca tgatatatct aaagttgtta 180  
acctgtctgg aaggtttaag ctggaacgtg gtattgaaga tcgttttggg aatgattaca 240  
tggaagat tgatcagcat ggtttcattg atgtggaaga caaacagga cgtatcatct 300  
accgtgtgac caaacaaggt ctgatggacc gtcttaagac agatatgcac tctgcatgct 360  
tgtctattga cccaaactgc aagggtgtga ctgtacatgg tgctaata 409

<210> 41886

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G10

<400> 41886

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agtcgacgag agactagagg actcgttgct atccagcttt gccgagaact gcaacaatgg 120

tttcggaaga aaccgcatca cctacacaga cacgtgtacc ggtcaagatc tgaagaaata 180  
ccacaacatg gatgccatca atgacctgtt agtgtcaggg gtagcgtcaa ggaaagccaa 240  
ccaccaatt ggacaa 256

<210> 41887  
<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G11

<400> 41887

cacacacaaa agcaaaaagc atcatcacat taatggcccc cgcggtgtgtg ttctcgtgg 60  
tgctcctcct ggccgccgtc gcggtggcgc cgtttgccgg ggctgcgcgt gtggatgtcg 120  
tggaaggcag gtccatggcg tccgccgacg cgctgatgc ggccggtgac gcgcccgctc 180  
ccggtcccga ctccgcctta ttcccgact cgccggtgga agccgctcc aacaacagct 240  
cattcgacta ggccgcgaca acgcaattct tgtcatgac tatctagcaa ataaaaagat 300  
catatgtctc gtttgattct ctggaataac taatagtata tatgctgcgc ccggatgata 360  
tataaatatg tgcataaat gcgtgcggca aacgcattgga atg 403

<210> 41888  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G12

<400> 41888

acacagagca gcatttcgag taacacagtt gttcacgacg atgggatccc tcgctaata 60  
catcatggtc gtgggcgccg tccttgccgc gcttgctgctc ggccgggtcgt gcgggcccc 120  
gaagggtccg cccggcccca acatcaccac caactacaac ggcaagtggc tcaccgccag 180  
ggccacctgg tacggtcagc ccaacggtgc cggcgctcct gacaacggcg gtgcgtgcgg 240  
gatcaagaac gtgaacctgc caccctacag cggcatgacg gcgtgcggca acgtcccat 300  
cttcaaggac ggcaagggtc gtggctcatg ctacgaggtg agatgcaagg aaaaacctga 360  
gtgctcgggc aatcctgtca cgggtgtcat cacagacatg aactacgag 409

<210> 41889  
<211> 209  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G2

<400> 41889

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gaccttcagt cagactctcc agctttttga cgaaagacca gactagacac ctaagactta 120  
catagccttc atgagtgcga gcgaagtgtt atcactcaac gtgccaggct tagaagatca 180  
gtagacgcag gactgaaaaa tacgcagat 209

<210> 41890  
<211> 345  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-014-Q1-K1-G4

<400> 41890

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gaaagccggt gaattcaaaa agggcgtcta aggtgcaacc aagtttctcc ttatcaagcc 120  
gaaagacctt caattttttg gtggtgagag cattaaagac caagcgttcc tgggtattcga 180  
ctattacaag gattgtgcc aatttcgac attcctgtat ttctctcatg gtcttaatga 240  
gatcaagtgc tagattagtt acccatgttg ggtactatat atgttctatt gttattgcc 300  
caactatagc tgccctgcct gaactgaact cangattttt ttaag 345

<210> 41891  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G5

<400> 41891

aattattggt tctcgtggcc tgtatttcgg actttacgat tctatcaagc cagttgtcct 60

cactggcagc ctccaggaca acttctttgc cagttttgct ctgggttgge tgatcaccaa 120  
 cgggtgctggt cttgcatctt accccattga tactgtccgc agaaggatga tgatgacttc 180  
 tgggtgaggct gtcaagtaca agagctcctt ggacgcattc cagcagatcc ttaagaagga 240  
 aggccccaag tccctgttca aggggtgctgg tgctaacatt cttcgtgccca ttgctggcgc 300  
 tgggtgtgctt tctggctacg accagctcca gatcctcttc ttcggaagaa agtactgctc 360  
 cggcgggtgct taaatggaga aaaatgatga cgaaca 396

<210> 41892  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-014-Q1-K1-G8

<400> 41892

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 gaacctttct tcgacgcaaa aagaaccca cccgcgtacc gtgagccgcg atggcgacgg 120  
 tggcgatgga catctcgaag cccacgccgg cagcgtccgg tgacgaggca gcgccggcgg 180  
 cgaaggggag agcggcgggg tggcgagggg ctgcccagct ctacctgcac acatccatga 240  
 cctgcagctc cagatccggc agaagacca taacctcaac cgctcagagg cccaggcatc 300  
 gacctcaact ccgagttaga atgctcagga agagttgcag ttgcttaaga gcctggctca 360  
 tatgtgtgag gtggtgaagt catngaaat caaagttctg gtgag 405

<210> 41893  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G9

<400> 41893

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 gggccgtggc aaggctatcg gcgctggcgc cgcgaagaag gcaacgtcta ggagctccaa 120  
 ggccggactc cagttccccg tcggcaggat tgccaggttc ctcaaggcgg gcaagtacgc 180  
 ggagcgcgtc ggcgcggcgc ccccggtgta cctcgcgggc gtcctcagat acctcgcggc 240

tgaagttctc gaacttgccg ggaacgccgc gagggacaac aagaagaccc gcattgtgcc 300  
 gcgccacatt cagcttgctg tgcgcaacga cgaggagctg accaaactgt tgggtggtgc 360  
 caccatctcg agc 373

<210> 41894  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H10

<400> 41894

cccacgcgtc cgggaagagt cagcaatgga ggcgaggatt gcaggagtgc ccgaagatga 60  
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 ccgcttcccg cctccaccgg cagcctgggc gacggtggac ggctccctcg ggcttccgct 180  
 ggaggacgcg gagggccacg cccgccgctt cttcatgtgg ggtttcgcgt gcctccccctt 240  
 cctctggggc atcaactgct gctacttctg gcccgctctc cgtcgtcggg tcgctctctc 300  
 gcccgccgcc ttgcggccca tccgtccctg tgagaccgct accccttctc cccgcttctc 360  
 cgtctctctt ctctcttctc gcgcctgaga tctgatcttt cgtgatgcta gtatgtga 418

<210> 41895  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H11

<400> 41895

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 ctgcgccacg tgctctccgt caccgacaag aaactcggcg tcttcaacta caccagggcc 120  
 gacgacgggc agatgtactt cggcgctccc ggcgccccct gcgtggccaa gctcgtgaag 180  
 gtcgtcgcag cgcggccgta ctctgtgtcc atcatggaga tcagcgagcc cattttgccg 240  
 gccgcgttgc cctccccctg cgcggcgccc ggccgccgcg gcaaggggtg taagcgcaag 300  
 atcaagccat cagcggcaac ccatgaggat ttcaacatga tcccgcgcaa g 351

<210> 41896  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H12

<400> 41896

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cggattcgac ctccgcaccc cttcccacag cacccaagca gaccacagca acggctgcaa 120  
cccctgctgg aacgccgtgg tacacttccc catcccggct gccgctgaca cccgcggcct 180  
cgcactccac gtgaggctcc gcgcccagcg tctatacctg ggcgatcgcg acatcgggca 240  
ggtgtttgtg cccatcgacg acctcctggc cggcgccgac aagggtggcg atccgaggcc 300  
cgtgagcta 309

<210> 41897  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H3

<400> 41897

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gtgaaggcca agatccagga caaggagggc attccccag accagcagcg tctgatcttt 120  
gctggcaagc agctggagga tggctgcacc ctgcggaact acaacatcca gaaggagagt 180  
acccttcacc ttgttctccg cctcaggggt ggtatgcaca tctttgtgaa gacctgact 240  
ggaaaaacca taacctgga ggttgagagc tcggacacca tcgacaatgt gaaggcgaag 300  
atccaggaca aggagggcat ccccccggac cagcagcgtc tgatcttcgc cggcaaacag 360  
ctggaggatg gccgcacctt agcagactac aacatccaaa aggagagcac cct 413

<210> 41898  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H4

<400> 41898

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 tcaaaaggga tccatgctgt ccttaatatc gactccaatg gccatggtgt tcatgctttc 180  
 ttgaataatg tgctcataag tagtgcatat ggtaatggct cacaatcaag attcagcgtc 240  
 aaattgcca tcaacctgat gactggaaag aatgaacttg cccttctaag tatgactgtt 300  
 ggtttcaaaa atgcacgatt cgcttatgaa tggataggag caagctttac aaatgtgaac 360  
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<210> 41899  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E4

<400> 41899

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 tcagccggtc gagagcttag ttcccgaatc ttttttaatc ttaacggaaa atttgtccgt 180  
 catccttctg atgagaggaa ctcatataac aggcgaaata ggtctttttt tgcgctggga 240  
 aaagtttacg ctgatgcat aataatttgt aggacggcaa cgctctagag cgcaggtttt 300  
 gttcaccttc tgtaccgagg aatgcttaaa gttacatttc acattatggc cttt 354

<210> 41900  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E5

<400> 41900

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 tgagggtatc ctgctgaagc ctatcatggt cacccttga gctgatcaca aggagaaggc 180  
 ttctacagaa gccattgcaa agtacacgct aacaatgctc agaaggagag ttccttccga 240

tggtcctgga atcatattcc tttctggtgg acatgccgat gtggacgctt ctctgaacct 300  
gtatgctatg aaccagtctc tgaacc 326

<210> 41901  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E8

<400> 41901

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cttcaagtac tgtgttgtgg cattgttaca catcacagta cagtttggtc aaattttttt 180  
tccacagagg aagtagggat tgatttaatc attgatttaa tcccacacgc gtgtatctac 240  
gtatacagtt tgtataacat gaaccacctc tgtttgcat tggtctaaaa ataaatataa 300  
tacttatata ttgaattggt ttgc 324

<210> 41902  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F10

<400> 41902

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cctcctcgcc ctacggcgcg ccggcggcgt ggcgcccgac ggctccgac accggtacaa 180  
gattcgcgag cccgtcccgc tctacgcaa caaggctggc ccatttcaca atcccagtga 240  
aacatatcga tatttcgacc tgcctttctg ctctcctgac aaagtgaagg agaagagcga 300  
ggcccttggg gaggttctca atggggatcg gttagttgat gcgccttaca aagctgattt 360  
ccgtga 366

<210> 41903  
<211> 318



<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-014-Q1-K1-F11  
 <400> 41903  
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 ctggggccacg gacgaccaact cctccacaa cgccttcagc acctacggcg aggtcctcga 180  
 gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcgggt tcgtcacctt 240  
 ctccacggag gaggcgatgc ggaacgccat cgaggcatg aacggcaagg agctggacgg 300  
 ccgcaacatc accgtcaa 318

<210> 41904  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-014-Q1-K1-F2  
 <400> 41904  
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 gtcgcggcgc ccaccgtccg ccgggcgctc gtcacggcag aggtgcctgc ggaggccgcc 120  
 gaggactcca cgtttgtgga gacgtggaag aaggtcgcc ccaacatcga gcccccaacg 180  
 acgcccctct tctcatgca gccgcgccc cccacgccg ctaccatccc cactaagctc 240  
 accgtcaact tcgtctctcc ctacaagtcc gagatcgcca acaaggaggt ggacatggta 300  
 attgtaccag ctacaactgg tcagatgggc gttttgccag gccatgttgc cagcattgca 360  
 gagtcaagc ctggtgttct ctcagtacat gaggggaacg atg 403

<210> 41905  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-014-Q1-K1-F4  
 <400> 41905

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taccaccacc accgcaggag cgagatggag atgaagagga tctctctcgc cgtcctcgtc 180  
gtcatcgccg cctcggccac cgcagtgtg gccttcaccg aggcgcgcgt cgcgggcgcc 240  
ccaactgcct ccgagtcgtc cgccgaggct cccgctggcg ctggcgctgg cgctgccgct 300  
ggcgccgtcg cctcggggcc cttcgccagc agcggcgcg cgcctcctcgc cgtcgcgccc 360  
gccgcgtccc tcttctccct tctcgcttac tacctncaact aagcgtgtgc gtgcgtacgt 420  
acgcgc 426

<210> 41906  
<211> 396  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-014-Q1-K1-F6  
<400> 41906

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ggtggagaag cggattacgg agaggaacag ggacccgcga ctcaagaacc ggaagggacc 180  
cgccaagggtg ccgtacacgc tgctgttccc ggacgtcggc ggcaaggaga aggggatcac 240  
cggcaaaggg ataccaaca gcgtctccat atgacaattg acaagctcgc tccttttttt 300  
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<210> 41907  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 41907

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ccttgagata tcaaattgggg ttttcgaggt caaggcaacc aatggtgata ctttccttgg 120  
 tgggtgaggat tttgatggtg cactgcttga atatctggtt agcgagttca agaagtcaga 180  
 caacattgat ctgagcaagg acaagttagc actgcaaagg ctgaggaag ctgctgagaa 240  
 ggccaagggtt gagctttcgt ccactatgca gactgaaatc aacctcccat ttatcactgc 300  
 tgatgcatct ggtgcaaagc acttcaacat taccttgacc agatctaagt ttgagtctct 360  
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 catctc 426

<210> 41908  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F9

<400> 41908

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 gctatggggc aagagatttc gtgacgagtc aagatacaag tctgctatcc gcaggcacat 180  
 actatctcac gcacgttgac tccaagtaca gaaggttcta cgacgtgaaa ggtgacggtg 240  
 tcgccactgc aatgtccaac ggccactgat ctttcttctg cccgaagctg caacaagtca 300  
 aataacagag gcaagtgtcc taaacatcct tagatgatta tatatctatt aagaggggaa 360  
 gctcgagtta tagattaatc tatgccagc tg 392

<210> 41909  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C7

<400> 41909

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 tcctcttctg ccagtcctcc cccgctagcg cccccgcccg ggagttcgtg aagaagaact 180

atggtgacat caagggccgc aacctctccc tcccccttct tgtccgcgag tgctccggtg 240  
 tccagcccca gctctgggcg cgctacgata tgggtgtgga gagatgcgtg aacttggatg 300  
 gtctgacgga agcacagatt gataagaagc tggaggaact tgcaatggcc ggggagtctc 360  
 ttaaaaccaa atagttttgg aactcgtatc at 392

<210> 41910  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C8

<400> 41910

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 gatcctcatc gccgcgctcc tcgtagtcgc cgtctcggcc accgcagtgc tggcctccac 180  
 cgaggccgcc gccgtcggcg cccagccgc ctccgagtcg tcggcggtccg ccgaagcccc 240  
 cgctggcgcc gccggcgccg gcgccggcac cggcaccgtc gcggtgccct ccgccagctg 300  
 cgccgtgccc gccctcgccg ccgatcccg cgcgctctc ttctacctgc ttgcctacta 360  
 cctgcactaa tc 372

<210> 41911  
 <211> 112  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C9

<400> 41911

gatggattat agatcctgac atatttatct tttattttgc aagacttccg ctgtgtaata 60  
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<210> 41912  
 <211> 252  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D10

<400> 41912

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aagtatgtca aaatattagc tgcaaagcta cattatgcta gaacccagtt accaaattct 120

aagtcaaaaa ttccattggt ccttaaaaaa aattggaggc tcaaaagtag aacaagctcc 180

ggggttaatt tggtcogtgg gttaaaagca ttgacaaca ttattaatcc ttgacaattt 240

taaaacctta ag 252

<210> 41913

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D12

<400> 41913

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gcccttttcc gacattcaca ggggggacag gaaatcagcg gccatggcct cgattccggc 120

gacgacctc gccgtcatct tatccgtcct cttctgtgcc gcggctggca ccgccgtcga 180

caacgacctc cccgactacg tcatccaggg ccgctgtctac tgcgacacct gccgcgccgg 240

gttcgtgacc aatgtcaccg agtacatcgc gggcgccaag gtgaggctgg agtgcaagca 300

cttcggcacc ggcaagctcg agcgtccat cgacggtgtg accgacgcga acggcacgta 360

cacgatcgag c 371

<210> 41914

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-014-Q1-K1-D6

<400> 41914

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accatagttt aactctcaca aatggtgcca gttgcggcta cctagagtgc aggaatggcc 120

aacataaact ctgaaatagc gtcagtactc atgaggggaa acaattgagg tagtgaaaac 180

aggtaactgc tggaagaaac ggaaacagaa accaacagct acaccgaata tttctccagt 240

accacgatac atctaatacgca tgcccaaact ctgctatctt caatgttcaa cccggcttga 300  
 accacaagca gatactgtcg aatttccgta ctgtacttgt atcattcttc acagttcatg 360  
 tctttatgcg caccacatac gaacatgnct gaaggtttga catgtcagca gagacagaac 420  
 acgaaatttc 430

<210> 41915  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D7

<400> 41915

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 cggcgatgcg cgcaatgtag ggctcgatgt cggcgtgctg ggcgagcggc acgcaggcgc 180  
 ggaagctggc ggcgtcgggt cggcccgcga ggccccggca ggcgaggtac tcggcgcagg 240  
 cgttgctctgc caggatccgg cgcagcgtgt cgcgctgcac ggcggcggcg tcccgcgtga 300  
 gggactcgaa ctccggcgatc accgtctcgc cgcagaacgc ggcggcctgc gccttcttct 360  
 ccggcatggc g 371

<210> 41916  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D9

<400> 41916

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 ccgaacgccg tgaatgctgt cacgtggggt gttttccctg gcaaggagat tatccagcct 120  
 acggttggtg atcatgcaag ttttatgggt tgggaaggacg aagcatttga aatctggact 180  
 cgggggtggg gttgcatggt ccctgagggt gattcatcga gggagctact agagaaggtt 240  
 cagaagacct actacctggt cagcctcgtt gacaacgact acgtccaggg ggacctgttt 300  
 gctgccttca agatctgatt atgctctcat ggtctgtatt gttgtatggt tggaccaaac 360

aatattcttg catccccgac tacaggtctg atcgccatga aagcttctgt tc 412

<210> 41917  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E10

<400> 41917

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ctgcctcacc ccagcggcgg acatctatcc gaaaatagge cgcacctcgt ccgctttgct 120  
ccttggtcat ccttcacctg ctgatggcgg cagcggcgg gccatccaac gccactcttc 180  
tcgcgcgcct tcgggacggc acggccaagt tcgagctgct ggatgactct gcgtttgcgc 240  
ttgcgcacgc gccccggcc tggccccgac ttcactgctt tgccaggatt gccccctcgt 300  
tgaggggtgg gtggtcggca gcgttgaaca aggtggagca ttacgggggtt cagaggggta 360  
ccggcgatgg ccggtgcatg tttcgagcgc tggctaaagg aatggcaaaa 410

<210> 41918  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E11

<400> 41918

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tcctccaaga tcagcatcct caactcgacc atcggcaccg gcgacgactg cgtctcgatt 120  
gggccccgggt gcaacggcgt cttggtggac agcatcacct gcggccccgg gcagggcatc 180  
agcgtcggct gcctaggccg ctacaaggac gagaaggacg tgagcgacat cacggtgcgg 240  
aactgcgtgc tcaagaacac caccaacggc gtgcgcatca agtcgtacgt ggacgccgag 300  
tccgtgctga cgggcctcca tctcaccttc gagaaca 337

<210> 41919  
<211> 240  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E12

<400> 41919

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tcgtccgagc gaacaatcca accgtccccg ttccaaggc aatccgacgg cgacgtacca 120  
ccaccaccgc aggagcgaga tggagatgaa gaggatcctc ttcgctgctc tcgtcgtcat 180  
cgccgtctcg tgcaccgaag tgctggacta caccgaggcc gtcacgagg tcgccccaac 240

<210> 41920

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C6

<400> 41920

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agcagaagcc taaggaagcc aaaaaggagg cccgaagcc taaggaagct gagaaaccag 120  
cagaggaaga ggaggctcca aagcctaagc caaagaatcc ccttgatttg ctctctccga 180  
gcaagttgat tcttgacgat tggaagaggc tgtattctaa cagaaaacc aacttcctg 240  
aggttgctat taaaggtttc tgggacatgt atgaccaga gggctactcc ctgtggttct 300  
gtgactacaa gtacaatgac gagaacacag tgcggttgt gactatgaac aaggttggtg 360  
gcttctgca gcggatggat ctgtgccga aatacgctt tggcaagatg c 411

<210> 41921

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B12

<400> 41921

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tgggctagca ccacaaatgg aaacaagaaa ctggactcag catatcgca agctaaggag 120  
aaagaagagc actgtccat tttctgtta ttttcggtga atgccagtgc acaattctgt 180  
ggtgttgctg agatgactgg accagtggac tttgagaaaa gtgtggatta ctggcagcaa 240



gataagtgga ctggtcaatt ccctgtgaag tggcacatag tgaaggatgt tcccaataat 300  
 cttttccgac atataattct tgaaaacaac gacaataaac ctgtaacata cagcatagat 360  
 acacaggagg tgaaactaga gcaaggaatg 390

<210> 41922  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B3

<400> 41922

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 tatgcgtcgt cctctcctgt gccgcggctg acgaccgaa cctccccgac tacgtcatcc 180  
 agggccgcgt gtactgcgac acctgccgcg cggggttcgt gaccaacgtc accgagtaca 240  
 tcgcgggcgc caaggtgagg ctggagtgcg agcacttcgg caccggcaag ctcgagcgcg 300  
 ccatcgacgg ggtcaccgac gcgaccggca cctacacgat cgagctcaag gacagccacg 360  
 aggaggaca 369

<210> 41923  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B4

<400> 41923

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 ctctgtcccc atcgccgtcg ccgtcgcgcc tctgctcctg ctctcctcg tctccactgc 120  
 gtccgctgca cggaccgtgg gcgacaccgt gcaggacgcg tgcagcaaga cacaattccc 180  
 caagatctgc gtggacagcc tcgccgcaaa gccagagagc cagaaggcga ccccgcgccg 240  
 gctggcggag ctgttcgtga acatcgcggc cgagaaggga tccgggatgg ccacgttcgt 300  
 gcacgggaag tacaacaacg ccaaggacag caccgtgttc aagtgtacg acagctgctc 360  
 ggacgacgtc ga 372

<210> 41924  
<211> 400  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-014-Q1-K1-B9

<400> 41924

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ccatcactcc acacaccggt cggaaccgag gccaaccaac gacgccgccg ccaatgtcgt 120  
cccctgcagc gccggtgcag ccgccgccgc cgcgcgcggt gcgcttcggc gtccctgggat 180  
gcgctgacat cgcgcgtaag gtctcgcgcg caatgctgat gtcacctccg ggccgcccca 240  
ccatcgccgc cgtaggcagt cgctccgatg acaaggcccc cgcttccatc tccgaaatcg 300  
gttccccgc ggccgcgcgc cacgggtcct acgagtctct cctagaggac ccgtacgtgg 360  
aggccgtgta cctnccgctc cccaccagtc tccatgtgcc 400

<210> 41925  
<211> 408  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-014-Q1-K1-C1

<400> 41925

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ttctcatcaa cacaggcttt gtctgcccgc tccattccga ggactgctgg gccgacaccc 120  
gcgtcatctg caccaagacg cacaactgcc gggacgacac ttgcgcgggg cgcgcatgc 180  
cggacggccg ctgccactgg gagttcccca acctggtgcc cttctgccag tgcttgcgcc 240  
ccaactgcca ctagtccggg cgcttcggat tggctcactt cgccggcgat gatggatggt 300  
gcccactgc gactgcccag tctgtcccat tcgttgttgt ttaaggcata atatataaac 360  
tgccaaattc acatgtatct tgggatattg gntatcatat tatgaaat 408

<210> 41926  
<211> 423

<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C10

<400> 41926

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tgctgaacca gttcatggaa cagttcatag ctccaatttc taaagttctt tatectgagg 120  
ttggtggagg aacattggac tcccatcacg cttttattgt tgaatatggg aaagacaggg 180  
atgttgaact aggttttcat gttgatgatt cagaagttac attaaatgtt tgccttggaa 240  
aacaattctc tgggtggtgaa ttatactttc gaggtattcg gtgtgagaat catgtgaatt 300  
cagagacaca acatgagggtg acttctcatt ttacttcaac aactttctta tctacccatg 360  
catggaaatg tatgactaca cacatatccc tggttgggct gtactccacc atggtcgaca 420  
cag 423

<210> 41927  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C11

<400> 41927

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tcaaggggat ttcagctggc actcatgcat tcaagtaaag gctccaattc gagataccgg 180  
tgcgtttcaa taagcagggt caacagtatc tttcgttaaa aaaaacagct ctgcttttcg 240  
ggcggctgct atgtcgact gcacaatgtg gcgtatcgca acgatggcaa actaatgcct 300

<210> 41928  
<211> 275  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C12

<400> 41928

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atccgcatcc atggcggtcaa gtgcgggcca tgccacggct tcagcggtcg gaagcctggg 120  
 cccctccaag gccaaaaagg acttgga aaa cttccagtta acgggttgaa caaccgccgg 180  
 aacaacgaac ggctgcgca tcaagtcgta cgaggactcc aagtcgtcgc tcaaggccag 240  
 caagttcctg tacgagggca tcaccatgga caatg 275

<210> 41929  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C3

<400> 41929

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 tcgtgcacca ccccgctcac cttccaggtc ggcaagggct ccaagcccg ccacttggtc 180  
 ctacccccca acgttgccac catctctgac gtggagatca aggagcacgg tggcgacgac 240  
 ttctccttta cgctcaagga gggctccgact ggcaacttga cgcttgacac caagaccccg 300  
 ctcaagtacc cctctgcat ccgcttcgct gtcaagtccg gtggctaccg catcgccgac 360  
 gacgtcatcc ccgccaattt c 381

<210> 41930  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C5

<400> 41930

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 ggtgcagacc cgcgcgcca actcgacgca ggtgggtggg ttcttgacgc tgctcgtctc 180  
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 ctccgccatc gtcgcgctcg cgctctccgc ctgcgccttc gccgtcgtcg cgctccccgt 360

ggccacctgg atgtaccgct acttcacggg cegtcacccc gtgggcgcgc accgggtgga 420  
ctacgcgcgc 429

<210> 41931  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B11

<400> 41931

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actctataaa aaaactatca cacctacggg cacaagggtt cgtagaaata cagtttaggtt 180  
gggacgggag cgagtaattc tcagactcct catgtgcaca gtcacttttt cctcataata 240  
catccagggtg gggttcctcc cccagttcac tctataaaaa aactatcaca cctacgggtca 300  
caaggtttct accccgtcga tatatatata caaatggatt gcataaaaga aattatagag 360  
ggcgagaaca ctctgccgta tcagtcttga taactctg 398

<210> 41932  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H10

<400> 41932

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aatgcatgca taaccatgta ttcggcagaa gctcgggaagg aaagcagagg agctcatgct 180  
cgtgaggatt tcacgacaag agatgacgag aagtggatga agcactcact ggggtactgg 240  
gaaaacgaga aagttcgatt ggcatcacagg ccagtgacaca tgaacacatt agacgatgaa 300  
gtagagtcct tcccgcgcaa agctcgtgtc tattgatcga ttcaagcctc acacccttcg 360  
ggaattccgt gtaaggtggt aataaagcag atgggcgttc cttgctgaga acatgatctg 420  
aac 423

<210> 41933  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H3

<400> 41933

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caatggccaa tgcagaggag atgagtcaac caaagctagt gaaaagatat ggaatgagct 120  
caccacccc cagagcatca agaagctggg aatcaagaac taaaaggcg taaagtttcc 180  
aaaatggata aaaggtccca agctaggaga ctcttcccc agccttgtgt ttttggatct 240  
tgaaaactgc atgtcatgta ctaaactgcc ttcacttggc ctctgagtc aactccagtc 300  
cctgcaaact tcaaatgcag actcagtca 329

<210> 41934  
<211> 196  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H8

<400> 41934

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aaggattcaa gccgggtcc cattggtaat aagccacctt tcaaggattc gaatgatgca 120  
actctgagga agagcagggg tagcctcaa gcaccattcc ttaaagaatg gcagaccaa 180  
attcttgcaa aggag 196

<210> 41935  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H9

<400> 41935

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gagacaatga agcatgtcat caatctttcc aatgtgggtg ataggctctg caaacaatg 120

tatcagtgc ttgagaatga ttgttatat cctctacgca cacctcacia tatcgctcca 180  
 taaaaatcta aaggccttga cagggcctca gagctcaata ttaagctgga tctgctgaa 240  
 caaagttcac agtcaacaaa aca 263

<210> 41936  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A11

<400> 41936

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 ggacgccaac ggtatcctga acgtgaaggc ggaggacaag ggcacgggca agtcggagaa 180  
 gatcacgatc acgaacgaga aggggaggct gagccaggag gagatcgacc gcatggtgcg 240  
 ggaggcggag gaggtcgagg agggaggaaa gaaggatgaag gaggcgatcg acgcccga 300  
 ccagctggag acgtacgtgt acaacatgaa gaacacgggtg ggcgacaagg acaagctcgc 360  
 ggacaagct 369

<210> 41937  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A12

<400> 41937

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 agccgccacg agtaccgcgg tggcatggtc agaattagtg ttgtgccgta gctgcgaggt 180  
 tacgagtcac ttgaagacca agttggtacc tgggaatctc gaggctaagg tcaaggacag 240  
 gtaccacagg atgaggcgca tgaaggatga tatgatgagt tc 282

<210> 41938  
 <211> 357

<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A2

<400> 41938

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cccttctggc cgtggccatc gcgctgttcc tgtccgtgtc cctcggcgtg cgcgccgtcg 120  
gcgcccggcg cggcgtcgac atcaaggtgt cgtgtgcagc gacgccggac ccggacgtgt 180  
gcctactcgc gctccaggcg gacagcgact ccaagacccc gcgggacctg gcggaggcgg 240  
cgctccgcgc ggcgacgacc gcgggcggcg cggcggggcga ctacgcgcgg cagagatgg 300  
acgtggtgaa ggacaacgac atgtggcagt gcctgaacga gtgcgccggg gagatcg 357

<210> 41939  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A3

<400> 41939

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ccataaactg gaactgcggg tgggttttcg cagaggacat ggggctggac ctatacgcgt 120  
ccctcgacat gcgcgccggc agcgccggcg cctgcgtcga catcaaggag tcttgtgcaa 180  
agacaccaga ccctgacgtg tgcctactag cgctacatgc ggacaacgac tccaagaccc 240  
atcgggacct gtcagatgcg gcgctacgcg cagagacgac cgctgtcgaa gcggaggctcg 300  
actacgctcg gaacgagatg gacgtggtga aggacaacga catgtga 347

<210> 41940  
<211> 265  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A6

<400> 41940

gggtttcaac gctgtttccg tatcatgcta atgggccgct atgaatatct atgcatgcat 60  
gggtaccgtt tgcggtatct aattattatt acttcgtaga ccttactatt taaaattcaa 120



gcgttctcgt taaagtcctc tgtaatcttg cgatggaata tatttgatac attcctttta 180  
aatcattcc attgaaatgc cattggctct agcctcaaac cgtgactacc attgtattga 240  
ccgaatatat attgaatgcc tcttt 265

<210> 41941  
<211> 376  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-014-Q1-K1-A9  
<400> 41941

atggcctcga ttccggcgac gaccttcgtc cgatcatetta tccgtcctct tctgtgccgc 60  
ggctggcacc gccgtcgaca acgacctccc cgactacgtc atccagggcc gcgtctactg 120  
cgacacctgc cgcgccgggt tcgtgaccaa tgtcaccgag tacatcgcg gcgccaaggt 180  
gaggctggag tgcaagcact tcggcaccgg caagctcgag cgctccatcg acgggggtgac 240  
cgacgcgaac ggcacgtaca cgatcgagct caaggacagc cagcaggagg acatctgcga 300  
ggtggtcttg gtggagagcc cgcgcaagga ctgcgaccag gtgcatgcgg acagggaccg 360  
cgccggcggt ctgctc 376

<210> 41942  
<211> 394  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-013-Q1-K1-H1  
<400> 41942

agggagtcca ttgagttacc acttatgaat cctgaactct ttcttcgggt ggaattaag 60  
cctcctaagg gtgttctact ctacggctct ccaggaactg ggaagaccct attggcaagg 120  
gctatcgcaa gtaacatcga tgccaacttt ttgaagattg tttcaagtgc tattatcgac 180  
aaatacattg gagaaagtgc tcgtttgatt agagaaatgt ttggctatgc acgtgaccac 240  
caaccatgca tcatcttcat ggatgaaatt gatgctattg gtggtcgaag atttagtgag 300  
ggaactagtg ctgatcgtga gattcagcgg acgttgatgg agctncttaa ccaattagat 360

ggatttgatg agctaagaaa ggtaaaaatg atca

394

<210> 41943

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B10

<400> 41943

gagacatcaa caagctccta ccggcgctta tgatacccggt gcgcatgggtg gcgctcccc 60

gcttgtgcgt cgtccccctt ccaagagcca agattcggcc gtgcattaaa aggcatgtgc 120

cacctttgaa cccttcattt tcaacaacgg gttcgtcaaa atcattaacg gcgaaatcaa 180

caccgttgac ttcacccggg acattaccac cggagttaac ggcaacttca ccagcgggat 240

taccaccag 249

<210> 41944

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F2

<400> 41944

gcaaacctgc agtcatctcc tccatcacca ccaaactcaa caacagccag ctgcgaaaa 60

taatgaagag ccgcagcatg gcatcatcgg ccgcgctctt ggtgctagcc ctgcgctag 120

tggcggccac cgccccacag gtagcggagg caaagaagaa gagagcggcg gagagcggcg 180

aggcggcgga ggcgaagaag atccaggacg acttctgctc gacgctgtgc gagggcaaga 240

aggggacgga cctggctcgtg tgcaaggagt cctgcgcgct ctcccagcag tccaacctgg 300

tgctgtacgg caggatccag tgcaagggca agtgcaccga gc 342

<210> 41945

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F3

<400> 41945

gagtacagta cctttggcga cagcttccat tatttcttct acactcttaa gaagggcagg 60  
 aggtcactgg agtccagcag ttacaaaaac acattaccat cacctgttgc tccaagaata 120  
 aatatggtcc acgaagagct cgagagcgag gattttatat tcctcacaaa ccttgatggg 180  
 ttgtgagtgg ctgcttaaac aagcatctgg ctaacagcct aacacatcaa aagggtgacc 240  
 aggccagcgt tggtgaccct gcagtgatgt ttttttctg ggcggcaaata gagaatgatg 300  
 cctgtaaaat gtgtaattta ggatagattt aaattttgag ctttgttgtc tagtaatact 360  
 ataatactct atattactgc aagctagagg tctgtatgat cttgtaaaaa ttagtattac 420  
 tttccttttg aaatctaatag cttc 444

<210> 41946

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F4

<400> 41946

gaatgtcctt gccagaacaa agcgtgagtc agagaacacc aagaagtatg ccatgcagag 60  
 cttctccaag agcttgtag atgttgacaga caatttgtct cgggcatcat ctgttgtaaa 120  
 ggcaagtttc tcaaagatag attcatctaa cgattctgat gaagctgtaa cactactgaa 180  
 aaccctacta gaggggtgtg agatgactga gaagcaactt ggagaggtct tcaagaagtt 240  
 tggagttgaa aagtttgatc ctttgaatga gaagtttgat ccaaataaggc actatgccat 300  
 tttccaaatt cctgatcctt caaaaccatc aggaactgtt gctgctgttg tgaaggttgg 360  
 ctacatgtta catgatcgtg ttcttcgccc cgctgaagtt ggtgtcac 408

<210> 41947

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F6

<400> 41947

cttgaatgga actttcttga actcccatgc agttcatcat ccagatgctg agtgtaggca 60  
 ttgggggtgaa cctgctgaac ttgcacatgg tgatattata actctaggga cttcatctaa 120

actatctgtt caaattacac tgcaaaatca acgagttcct gctggtgttg gtatggcatc 180  
 cgatccaatg gtggcacgta gaagtggaaa gaaacttcca atggaagaca taagcttttg 240  
 ccagtgtcct ctgcagggtg ttgaacattt tgggctcttt ggaatttttg atggacatgg 300  
 tggggatgga gctgccaaag ctgtcagcaa gattcttcca gaaaatctgg gatacatgtt 360  
 atctcctcct gaaacaaaag aacgagtgca gtcatgttct gatgcttctg atgttcttag 420  
 atatgctttt actttgacag a 441

<210> 41948  
 <211> 329  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F8

<400> 41948  
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 atctacaccc cctcgaagaa gatctatatc ccctcgaaga tcctcacaca agaagagggga 120  
 atcaccaaga aggggagact cacctaagag gaagcactca cctaagaaga aggagtcacc 180  
 aaagaagaga gactcaccaa ggaagagaga ctcaccaaag aagagggatt caccaaagag 240  
 gaggagggac tccccaaaga aggggggata ggtcaaaatc aaggtcacct tcaaagaaac 300  
 atgacacttt tagacataaa aaagaacat 329

<210> 41949  
 <211> 249  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F9

<400> 41949  
 ctctatttgt ggcccgtgct cttactcttg gctcctcctc tggactgagt agtagtggga 60  
 tggacatcaa ccttggatgg agctccccac tggcacttca cgaagtccag caaccttgca 120  
 ctgaccttgg tctgaattga aggagagtat atgttacact atcaacatat ggatttttaa 180  
 cctttttgtt tcttctcgat gacttggcta ctgtctttac tcacaattca aacttgtgat 240  
 tttattttt 249

<210> 41950  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G1

<400> 41950

aaagaaggca gagagtgcaa atgtagtag agatgtatct ggagaagggtg ttcaacaagc 60  
attgttgaaa atcctagaag gaactgttgt cagtattcct gagaaaggat cacgcaagaa 120  
ttctcgcaat gacagtatac agatagacac gacagatatt ctttttatat gtggtggtgc 180  
ttttgtggac ttggaaaaga ctatttctga aaggcgccaa gattcatcca taggatttgg 240  
ggcaccatt cgtacgaaca tgagaagttc tggagctagc tgtccaatgg ttacctcatc 300  
tttattagaa tctgttgaaa gtggtgatct tgtaagatat ggtctaattc cggagtcatc 360  
tggtcgtttg cccattctag taagtttggc agctctgaat g 401

<210> 41951  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G10

<400> 41951

aaaaaaagggt caatatcggt tactgtcatg gagagaagtg catactgcag ttccctattg 60  
attgtatggt acattttctg taagaccaca gagaattgca ggagaatcat ggccctacta 120  
cagtctaca gtggtgtggc aataataata catctgggaa gtccatgcc agccacaact 180  
ttcccatatt atccaaagaa taaacagagc ttacggaga aataagaaaa accaaacaac 240  
tagaacctcc taatctgcct ttgtcaactg caaaacatga aaggcgggaa ctggtctgca 300  
gcactagaga gtaacaaggg taaagatgac ttgcattata taaagtatga actcttcgac 360  
aggggtataa atttcaatgg atcttgtgca 390

<210> 41952  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G2

<400> 41952

gcgcaccgcc tccccgtgtc ccctccttct cgcccggcac cgtcgagctc ggctgtggag 60  
acagaacaaa cccatcaacc atggcgaaact cggcgctggg gatggccgtg agcgacgagt 120  
gcaagctcaa gttccaggag ctcaagtcga agcgaagctt ccggttcatc acgttcaaga 180  
tcaacgagca gacgcagcag gtggtggtgg acaggctggg gcagccgggc gacacctacg 240  
acgacttcac cggctccatg cccgagagcg agtgccgcta cgccgtcttc gacttcgact 300  
tcaccaccga cgagaactgc cagaagagca agatcttggt catctcctgg tccccggaca 360  
cctcgagggt caggagcaag atgctgtacg cgagctccaa ggaccgggtc aagagggagc 420  
tggagggcat tcagctggag ct 442

<210> 41953

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-G3

<400> 41953

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caatgtccca gtgatgcaga ccccgctctg tgctaagtct cctgctgaga aaggaggcaa 120  
gaacttcattg attgatttca tgatgggagg tgtttcagct gctgtttcaa agactgctgc 180  
tgctcccatc gagcgtgtga agctgcttat tcagaaccaa gatgagatga ttaagtctgg 240  
taggctatca gagccgtaca aggggtattgt tgactgcttc aaacgtacca ttaaggatga 300  
aggtttctct tccttgtgga ggggtaacac tgctaattgt attnctact tccctactca 360  
ggctttgaac tttgcattta aggactac 388

<210> 41954

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G4

<400> 41954

gaagagccgg attgccaga agtgttccgt tcccagccgc ggaggagagc ggcggacggc 60  
 ttccctgccg ctgccggccg ccttcctcga gttcctcagc gagaacggcc tggaccctgc 120  
 ggtgtactca atggcagcca ccatcccgcg ctacataagg ctaaaaccag gcatggagtc 180  
 caagatcgca gagattgaag ccgagttgaa gtgtgccctt gacaagggtt tatggctgcc 240  
 tgggttctat gcgattccgc cggaaattca gattgctggc tccaaggctt atcagcaagg 300  
 gaagatctat ggaattgatg ccgcttctgg agctgctata ttagcacttg atgttogacc 360  
 aggaaatcat gttcttgacc tctgtgctgc cccaggtgca aagctttgca tgct 414

<210> 41955  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G5

<400> 41955

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 tacctcgccc aaatctgttt tccactgctt tgacggcgag aacgtggaga gtgctcctcc 120  
 tcctatgaag aaggactaca aactggctaa tcttctatgc tgggaggagg aagcggatgc 180  
 catggaggag aaggcgggag tgcttgatga gtaagacggg cttctggggg cgatttgctt 240  
 ctgagttgtt tattttatat cgtcgcaatt tcgtggttgt cgtttggtta ttctgtgaag 300  
 cagccaagcc aagctattgt tatgaaaatt tgcgtctgt aagcatgtga acttccgacg 360  
 ttgccacatg ctggatcagt ctgaataagt aagtatgcag ctctaggtgg tcagctgcgt 420  
 ctaccac 427

<210> 41956  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G6

<400> 41956

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 agatgcaagg aaaaacctga gtgctcgggc aatccagtca cgggtgtacat cactgacatg 120

aactacgagc ctatcgctcc ctaccacttc gacttgagcg gcaaggcctt cggtccctg 180  
gcaaagcccg ggctcaacga caagattcgc cactgcgga tcatggacgt cgagttcaga 240  
aggggtgcgat gcaagtaccc cgccgggcag aagatcgtgt tccacatcga gaagggtgc 300  
aaccccaact acctggccgt gctggtgaag tatgtggcgg acgacggcga catcgtgctg 360  
atggaaatcc aggacaagtt gtcggctgag tggaagccca tgaagctctc ttggggcgcc 420  
aatctgagga tggacact 438

<210> 41957  
<211> 167  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G7

<400> 41957

ctctgctgaa gatgtttggt gacttccata atgatacagc tgaagagcgc aatgtccgct 60  
ttggagtcag agagcacgga atgggcgcca tttgcaacgg cattgctctg cacagaccaa 120  
gggttgttcc gtactgtgct acattctttg tcttactga ttacatg 167

<210> 41958  
<211> 367  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-013-Q1-K1-F12

<400> 41958

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gtggaggggt tggggtgaac ctgctgaact tgcacatggt gatattataa ctctagggac 120  
ttcatctaaa ctatctgttc aaattacact gcaaaatcaa cgagttcctg ctggtgttgg 180  
tatggcatcc gatccaatgg tggcacgtag aagtggaaag aaacttccaa tggaagacat 240  
aagcttttgc cagtgtcttc tgcagggtgt tgaacatttt gggctctttg gaatttttga 300  
tggacatggt ggggatggag ctgccaaagc tgcagcaag attctttcaa aaaatctggg 360  
atacatg 367



<210> 41959  
<211> 156  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G8

<400> 41959

aaacccatca accatcccaa actctgcttc gtttattgcc tttaacgacg actgcaatct 60  
caacttccat tacctcaagt ccaagcta atcttctttc atcaccttca acatcaacgt 120  
acatactcta tcatttattt tttatttatt accaac 156

<210> 41960  
<211> 175  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G9

<400> 41960

cgccagttca gccacgtgga gagggcagat cctagaagag ccggcgccat gagctcggcg 60  
gcgggggtcca ccatctcggc cggcgaaaac gtcgcttatt ccatcgacgc gctctaccgc 120  
aaggaccaag ccctggctga actcaagtct gaagtgatgg aagcccttca aaagg 175

<210> 41961  
<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D3

<400> 41961

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taagagcttc agggggaaga ttggagttac taaatcatatc agacagaaaa tgttggttaac 120  
gaaaacaatg aaagtagttc gccaggcgtg tatgtcaaaa gcagggtacg ataaggcgat 180  
ggatgtgttg gatgagctcg atgtcgttct aagccgattg gagccagata ttggatgtaa 240  
tgagtcaaca gatgttagtg ataattgagg agacaaggaa gaagagttga ataaaaataa 300  
tgctggcaat gggatggaag atgacaatac aattacatgt cataataagg attcgcataa 360

caccaggtct ggatgtgaac atgcgttaac aataataaca act

403

<210> 41962

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D4

<400> 41962

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tcaggatat ttgggccagg atttccagag ttagagcaag ttgagcagca ttttaagccag 120

aatcccaact tgatgaggga gataatgaat atgccagcga tgcaaaatct catgaataac 180

cctgatttaa tacgcaatat gattatgagc aaccacaaa tgcgcgagat catggatcgg 240

aatcctgata ttgcccattg gctcaatgac ccaagtgtcc tccgccaaac cctcgaagct 300

gctaggaacc cttgaatcat gagagagatg atgcggaaca cagacagagc tatgagcaac 360

attgagtcct ctctgaagg ttttaatatg ctccgtcgca tgtatgaaac tgtccaggag 420

ccattttctaa atgcaacaac aatgagcg 448

<210> 41963

<211> 126

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-D5

<400> 41963

ggactgcctt gatattggtg gcttgaattt tgaacataa aaagctactt tgcccagggt 60

cacttttccc ctctcaacac gcttcataac atcactttcc aataatttta tactaccaat 120

aaacat 126

<210> 41964

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D6

<400> 41964

cgcaccggca ccaccaccaa ccgagcggct ccaggctcct gctcaggaag gggagaagag 60  
 gcgagccttc cttgggaagt cgcaggagga gagaagggga acaaagatgg ggcgcggcaa 120  
 gatcgagatc aagcggatcg agaactccac caaccgccag gtgaccttct ccaagcgccg 180  
 caacgggatc ctcaagaagg cgcgggagat cagcgtgctc tgcgacgccg aggtcggcgt 240  
 cgtcgtcttc tccagcgccg gcaagcttta cgactactgc tccccgaaga catcgctatc 300  
 aaaaatcctg gagaagtacc aaaccaactc ttgaaagata cttgggggtg agaagcacia 360  
 gagccttaat gcagagattg accgtattaa gaaagagaac ga 402

<210> 41965

<211> 141

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-D7

<400> 41965

acgaaaaccc tcgcggcgag ggcgctctt cgttccacac acgcgcgccg gagncttcgg 60  
 agggcgcacc tgccttcacg acttgtcggg ctcgtgcgct actcttcttg agcgcggggc 120  
 ggagcacggg gacatcaaat g 141

<210> 41966

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D8

<400> 41966

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 ccggttcccc ccgcgcctcc atcccgtaac gcgacaccat gagggagtgc atttcgatcc 120  
 acatcgcca ggccggtatc caggctcgaa acgcgtgctg ggagctgtac tgccttgagc 180  
 atggcattca ggctgacggg cagatgcccc gtgacaagac cattggggga ggtgatgatg 240  
 ctttcaacac cttcttcagt gagactggtg cttggaagca cgtgcccc 288

<210> 41967

<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D9

<400> 41967

ctgcttcttc tagctcatgg cctggccatt ccatgtcgcg ctggctgctg ttcatttcat 60  
gggagaaagc aagggtggat cacagggtgg cgtctgcta aataaactac atacctttgg 120  
ctttaaagac tgggttgggg gattggtaca catcacaaga cacattgggc aaattttttt 180  
ttcacagaag gagtagggga tgggttaaac attgggttaa tccccaccc cggggttttc 240  
cgtttcccg tgtgttaaca tgaccaactt ttgttgcaa tggggctaaa aataaattta 300  
ttcctctttt attgaatggg ttgac 325

<210> 41968  
<211> 360  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E1

<400> 41968

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acctgagagg aaggactaag gagtcgaaga tgactgcggc ggtgctgtcc gtgcgcacga 120  
cgacgacgtc gctgctagca gcagtcattc tgtgcctctg catcgtctcc ctctcccccc 180  
gcggcgcgcg tgccgcgcgg gtctcccccg ggcgcagccc gatcgtggcc acctgcatga 240  
cgggcccgta cccggagctg tgcgtggggg agctgggaca gcggtgctg gacgtgcaga 300  
cgtcgatcgc gtccgcggcg cccgaccagc ggcggggcag gatcgcgggc gccccggggc 360

<210> 41969  
<211> 247  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-E10

<400> 41969

cccacgcgtn cgagacaaat atacttcata gggaccaaaa tacttaacgc gatgaagcag 60

gtgagtgggtt gtgacattgc ttcaccaggc gtaccttcta tggcttcgca gtgtatccct 120  
 tccacaagtc gttcgacatc tccatcaagt gcaatttcgg ttgatagatc catgttgga 180  
 gctgcacatg aaaaggagaa agagctgctg aatgaagtct tggagctgca atggcggtta 240  
 ctatgca 247

<210> 41970  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-013-Q1-K1-E12  
 <400> 41970

acagcatagg ggtggttctt ttgtcatgtc accatctttg ttgcaccaac atgctccagg 60  
 cagatcaatc agggagcagg aagtttcatc cggagtgccca ccaactaaag cttcacaagc 120  
 tatgatggat gaaccgcttg aaaatgtcaa tggacaaact gaagagttgc catcagagct 180  
 accctgctcg atcaagagac caaaattttc agttgcagaa cttctagaag acctacaggg 240  
 tagaagtggg tcttatgttg agacatcatc tttgtcacac caacacacca gagctaaaca 300  
 ttggaagcca aagttccttt ctttcogagaa gaaaacaata gctattctag gagacaggag 360  
 tattgacagt gaagaccctt tggagcatgt cattgacgga acatctagcg aggaggaaga 420  
 ttcttcttaa aaccacttga gtttg 445

<210> 41971  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-013-Q1-K1-E2  
 <400> 41971

gctcgcgtaa cctcctgcc atggctggag gcggcgggcg aggcgcgggc tcgtcgtgcg 60  
 gcggcgggcg agggggcggc agggagggcg actgggactg cggcagctgc ggcaaccgca 120  
 actacgcctt ccgctcgtc tgcaaccgct gcaagcagcc gcgcctctc gtcgacccca 180  
 acaccccgcg cgactccaag tggctacccc gcgcggggga ctggatctgc accggttgca 240  
 gtaacaataa ttatgcatcc agaaagaact gcaaaaagtg tggcttgccc aaggaggaag 300

cagcaatgcc agcattgcaa atggcagggga tgactatgcc aacttatgca acttatatt 359

<210> 41972

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E3

<400> 41972

cggacgcgtg ggcggacgcg tgggggaact tcatggaatc gcaatttttg tagggtgtgg 60

ggggagattc cagcactgta aatatgatga gatatgaaac agaaaagggg gtggcagatc 120

aacatcgacc ttctgtaatt agccagaata aaagaactag atgctttata ttgagcagag 180

ctctcgtctt ttgatcctc cccacggtgt agtatcaaga atgaataaat cttctgtttc 240

ttgtctggtt gtagcatgcc agcatctgta agttgtaaca attcagtga tttatttacc 300

ttcagc 306

<210> 41973

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E4

<400> 41973

gcatcgatca cgacaagatg gcgatgcacaa acaatgcgat gagagccttg ttccgcctgg 60

tcctcttctg catcgtgcat ggtgagaagg aagagtcaaa gggcatcgat gcgaaagcgt 120

ccgggcctgg tgggtccttc gacatcacca agttgggcgc ctccggcaat ggcaagacag 180

acagcacgaa ggctgtgcag gaggcacggg catcggcatg cggcggcact gggaagcaga 240

caatcctcat acccaagggt gacttccttg tcggacaact caacttcaca ggcccttgca 300

agggcgacgt gaccatccag gtggatggca atctgctggc gaccacggac ctaagccagt 360

acaaggacca tggttaattgg atcgagattc tacgcgtgga taaccttgtc atcaccggca 420

agggaaacct tgacgggc 438

<210> 41974

<211> 265

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-013-Q1-K1-E7  
 <400> 41974  
 agacaaaaca tggctgtgaa tgtgagcacc atttgggtccg tgatgcaagc ccaagttggg 60  
 atggttgtgg ccgtgtcctt cttggtgagc cgcgcattgg gccgtccttc caaagtcccc 120  
 cctggcaaga acatcacggc cacctatggc aaggactggg tagacgccta agcaacatgg 180  
 tatggcaagc cgacgggtgc cggccccgac gacaatgggtg gcggctgcgg gtacaaagac 240  
 gtgaacaagc ccccttttca tagca 265

<210> 41975  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-013-Q1-K1-E8  
 <400> 41975  
 cggacgcgtg ggttctggtg agactagatc tcgtcacatc caaccacgat ggaaacaagt 60  
 cctactagcc gtaatggggc ccgaacaaca ccagcggccg gtggatggga tcgctgcccc 120  
 ctctgtcgt cgttgcccc a ttggtggagg cccgaacagc acctgcaacc ggtggatggg 180  
 atcaccgcac cgccccctgc cgttggttgc ccatctgtgg agcacctcgt ggccgggggat 240  
 gccgccccat gcgaccaacc agctcaccct ctctttccat ggcgagtttc attccaggca 300  
 gatggactcg cacagtgtcc aagacgtgct tttactgctt ggagggaggg agctgagtag 360  
 tctgggtgga gca 373

<210> 41976  
 <211> 196  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-013-Q1-K1-E9  
 <400> 41976  
 acgggatcca aaatccacca cgatgagcat ctttggccgg ccgaaagccg cgggccccgg 60

cgggcaagaa gccgaagtgg aagcccttat cccggccggg ccagaagccg tgctccttaa 120  
 gctcaaaggg aactcccacc tcgtcttctc gggctncagc ccttctttcg ctgcagcggg 180  
 cggaactcga tcccct 196

<210> 41977  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F1

<400> 41977

tgctgttctg gttgttttgg ggattgttta gcggagccac ttccttgccg ttgtgcgaga 60  
 gaaactggcg gagactttgc ttatacgaga gatggcctgc ttaaagaagg atttctagat 120  
 gcgtgtgtct caatgctccg ggaaccactt aaacaaccgc acttctactg taaggggtgc 180  
 tgtcctattg agcaaataat gaagggagtc agctcagcga aacctgatgc ttgtaaaggg 240  
 caccttatta agaagtttat caaggaatgc tggataaaat gcggctgcac cagaaattgt 300  
 ggaaaccgtg tggttcagcg aggcattact cgcaaactgc aagtgttttt agcttctcgg 360  
 aaaaagggat ggggcttgcg ttctgctgaa aatcttctc gtggtgcttt tgtatgcgag 420  
 tatgttggtg aaatattaac aaacac 446

<210> 41978  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-013-Q1-K1-F10

<400> 41978

cggacgcgtg ggcggtaggt cacatgcggt cggatggtga gagcctgaga ggggggtggca 60  
 gcacagcacc atggcgcgcg cttcacgctc cgtcccagcg cgtcggtcga gtactcgagt 120  
 cgtcagcggg cggtcggcac tcggcaccg attcttccaa agccgccact tatgtcctcg 180  
 cgagcttggt taataacgcc gcgtgagctg ggtgggtggg gagtttgtca gctgggtggc 240  
 gcgagcgtca ngcgtatggcg gaggcggggg aaaaggcgag ggtcgtggtg gttggcgg 298



<210> 41979  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F11

<400> 41979

gtgccggact gggagaaatt gggaggggtt gagtaggccg ccaagtgtc cttgccacgc 60  
agagagagag ggcattgtacc actactgtta atccccccct acaccatctc ttgggggttca 120  
agcagggggg ccacggagca cgaatgaagc tcatcaggtc tcctctgtgg gtccgtacgc 180  
cgggcggttg gccggaatct catgggattt cttgccggag tatggcggtc gttgtgggat 240  
tacggtgcc a tggcggtttg ggtctcagaa aacggcttgg gatgatcttc ggaccctatt 300  
gatgaggtgc gtgcgcttga ttcgaactaa ggtcaaccgg ggatcttggc aattggctcg 359

<210> 41980  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D2

<400> 41980

ggcggtggac gtcaaggaaa agggctctta cacgtacgag cccctcaagc actcgtgggg 60  
cgccatctgg aggaaggaca ggcacaaacc gcttaaggga cccctcaccg tccgcctcac 120  
taccgagga ggcaccaaga cgtctacga cgatgtcatc cctgccaaact ggaaggccaa 180  
caccgcctac accgcaaact aattaacttt agtgctgaca atactttaag tcggcctatg 240  
ctagctatac tagattgggt tggatcccaa gcaatgcatt acacatgcat gcattggacc 300  
gtgatatcta tttgctacca ctaccctatt acgacagtga tgctggcgcc aacaataatg 360  
gcgtcatcct cttctccat cttctccatc ttcatatata gctagagtga gact 414

<210> 41981  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B6

<400> 41981

cgccgatctg cccatgctcg gcgttgctc cattgggtgcc gccaaagtct gcctcacccg 60  
 cggagggtctt gccctaccca gctactccga ctctgccaaag atcgccctacg tcctccaagg 120  
 caagaattcg tttttttaat cctataaaaa aaagcatctc cgtgtcacat gcatgcgtgc 180  
 gtcttgatgt atgcacaggc aaaggatatct tcggcgtggg tctcccgag gcgaccaagg 240  
 agaaggatcat ctccgtcaaa gaaggcgacg cgatggcgct ccccttcggc gtcgtcacct 300  
 ggtggcacia caacgccg 318

<210> 41982  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B7

<400> 41982

gaagtgggtgg gggatatttct ggtgatgtaa ttagttgggg aagccttact tctgctcatg 60  
 ggatgggcaa catttcaagc cttggatcag gaaaccttgg ccgtggaacc ggagataaca 120  
 actttggctt gccttctgga aactatgtta ggagcaactc aactgggtaca attgggtgagc 180  
 cattttctgc atcagccaat gcatatgaat cgaacaatcc aggtgcatat ggcagcagct 240  
 ctatttatgg tgactcaacc tggagggttca actcatctga ggttgatatg cctccttttg 300  
 gtcatgatct tggaaatgat gatccagata tcaaatcaga aatatcagca agctatatgg 360  
 gcaactatac tgtaataaac aatcagacia g 391

<210> 41983  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-013-Q1-K1-B9

<400> 41983

attcgcgagt tcttcctcct ctgccgccat ggcgctctct ggggagaaaa cctcgtctgg 60  
 acgggagtag aaagtcaagg atctctcgca agcggacttc cgtcgccctcg agattgagct 120  
 ggccgaagtc gaaatgcccg gcctcatggc gtgccgcgcc gagttcggcc cgtccaagcc 180

cttcgccggc gctaggatct cggggtctct tcacatgacc atccagaccg ccgtcctcat 240  
 cgagaccctc accgcgctcg gcgccgaagt ccgctggtgc tcctgcaaca tctttcttcac 300  
 gcaggaccac gccgccgncg ncatcgcgcg cg 332

<210> 41984  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C1

<400> 41984

gategaactc ccgtccccgc gtggaggaga gcaggggccc acgagggccc tctcgcgcg 60  
 cgaccccgctg gcgttctctg gcggtctgtt ctggttcggg tcggcggggc ggaggcgggc 120  
 caaggcctcg cccttgccct ccccgccgcg cctgaccgcg gctgcggcgg cagcggacga 180  
 cggggccaag atgaagggcc tcttcaagtc caagccgcg acgcccgtgg acatcgctgcg 240  
 gcagacgcgc gagtgcctcg tctacctga cctccactcg gactccagga gcggcgatgc 300  
 caagcgcgag gagaagatga cagagctaag taaaaatctc agggatatga agtctatcct 360  
 ttacggcaat ggtgaatcag agcctgtaac tgaagcatgt gta 403

<210> 41985  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C10

<400> 41985

ggcagcacct ccgtccatgc cggcgccgctc ggcggcggag ccaagcggag gcatcgtagc 60  
 ccccgctggcc gtggtggcct cgcatttctg cccccctac gtggtgcaac ttgcggtgaa 120  
 agagaagaag gtgagccttc gggaaggcga ctttaccatt accgacacca acggggccgt 180  
 cgtggtcacc gtcaaagggtg ccttgatcag cattcacaaa cggcgggcggc ttcttgacgg 240  
 cggccggaac ccccttcttt tgc 263

<210> 41986  
 <211> 380  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C11

<400> 41986

cggcacatctcc cacaggacac cgagacttct tctcagctcg ccgagtactt caacgtgacc 60  
gacgggggtgg ttcagctaca accagatggg cgacgtgccc cccgccgtta acggggccact 120  
ccatgtcatc cccaacgtca tcaccgccga gttccggacc ttcacgcaga tcgtcttcga 180  
gaacccccgag aagagcatag actccctcca cctcgacggc tacgccttct tcggcgtcgg 240  
gatggggcct gggacgtggt cgccggagat gaggaagacg tacaacctac tggacacggt 300  
gagccggcac acgatccagg tgtaccgcg gtcattggac gcgatcatgc tgacattcga 360  
caacgcgggc atgtggagcg 380

<210> 41987

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C12

<400> 41987

aatttgagga gagaaagaaa gaaagagtta tcgtcatgga gagcaggagg aagaatcagc 60  
agaagacgag ctacattgta atttccatcc agctcctagc ggccctecta ctcttgagc 120  
ttgtgtcgt agtgccgggg gcgtcatgag aggagttgcc cttggatttt tgggtgagtg 180  
cactacgggg ggtcggggca aaagacgttt caacagccga tggatgcacc aagaagaata 240  
aagacaccgt gctctgctct gccaggcta acacggtaac caatttca 288

<210> 41988

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C2

<400> 41988

ccagttctgg gaagagaaag cctgtcctag ttatcatatt caggacggg gttagcgaga 60  
gtcagtttaa tcaggtgctg aacattgagt tgcaacaaat catcgaggct tgcaaatctc 120

ttgatgagaa atggaatccc aagttcacgt tgattattgc ccagaagaat catcacacta 180  
aatttttcat tcctggaaag ccagataatg tcccaccagg aactgtggtg gacaacaaag 240  
tctgccatcc aaagaacttc gattttctaca tgtgtgcgca tgctggaatg atcgggacta 300  
cgaggccaac tcactaccac atcctgcatg atgagatagg cttcagtcct gatgatctgc 360  
aagagctggt gcattcgctc ttttatgtgt accaaagagc acaac 405

<210> 41989  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C3

<400> 41989

gaatttccca caagacaaat caaagatacc tgcagcaagt tatctaattg agcttgcagc 60  
cattgactgg ttttaaggaca ccaaacgtat ggataacggt gctaggcaga agggttgtgt 120  
tgctcagggt gctgctgaga aagggatgca tacatttatt gtcaacatac agattcctgg 180  
atcaactcag tatagcttgg tcatgtatgt tgtcacaaat accttgaaga agggatcatt 240  
actacaacgt ttttttgatg gcgatgatga attctgcaat agcagactaa agcttatacc 300  
atccgttccc aagggtcctt ggtagtgcg acagagtgtt ggaagcacc cttgtctgtt 360  
gggaaaggct gttgattgta gttacgttcg aggtcctgca tacttggagg tggacgttga 420  
cattggatct tcggcggtag caaatggag 449

<210> 41990  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C4

<400> 41990

cggacgcgtg ggccaaacca caggaagaag cgagcagggc accgtgtttt ctcgagcgag 60  
ggcatcggcg cctgccgatt cctacgggtg cgcggcgtgc ggcgcgctcc tggacctgtc 120  
ggcggcgcac ctgtaccgg cggaattcta cttcgaggcc gggaacaagg gcacgtgtc 180  
cttctcgtgg gtggacgagt cgcgctgcg gttcgcgccc gaggaccgca tccgccctt 240

cttcgagacc ctcaactact ggggcatcca gcggaagcgc acgcgcatca gctgcgacgc 300  
 ctgcggccac ctgcttgcc acgtctacga cgacgggtccg ccggccatgc agggcaccgg 360  
 ccagttcggg atggggccca gccaggtcaa ttccgcgccg cccaggtacc 410

<210> 41991  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C5

<400> 41991

gccaaaatca acctacattg gtgttgatta cagaagaagt gcagattcat cgaacagata 60  
 cttttcattg gcattcgagg tcccaaattg ttgggtcaaa taaaaagatt gtttcacttt 120  
 atcaattatt ctatcacttt tttttttttt tattaaaatt catttatata tatattattt 180  
 tttttatttt ctattttttt tattttattt ctttttataa atttttatat attttttttt 240  
 cttttttata tattattttt tttttttttt ttttctatat tttttatctt aatttaattt 300  
 ttgttggtgtt aatttttttc tattatctat ttttttactt atattt 346

<210> 41992  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C6

<400> 41992

catccaccga agggagccta gcgtgaagtt gtataattat gccgcggcat ctaaaggggc 60  
 taaggttctg gatttcaata aggaggctaa ggggtgcttc aacatcttag ataaagacaa 120  
 agacaagtac ctccgcaatg cttgctcagc agaggggaag tttgtcatca tagagctttc 180  
 tgaagaaact ttagtagata caattgcaat cgcaaatttt gagcattatt cgtctaatec 240  
 aaaagaattt gaactgctga gcagtctgac atatcccaca gaaaactggg aaactcttg 299

<210> 41993  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C7

<400> 41993

ctatgttttc acagacaacc aattcactgt gactgcttac acctgggcag tggcctacct 60  
agcaagcatg tccattgatt tcgtgtacat caagcatgtt gtaatgacca ttgggctgaa 120  
cacatggggc cttgtgctat acaacaacct tgaggccttg atgctattcc cactcgagct 180  
tctcgtaatg ggagaatttg atcagatgaa ggtcgacagc tccaaagtgt caaactggct 240  
ttcatttgat gtggctcctc ctgttgctct ctcatgcctg tttggactat caatatacctt 300  
cttcggattc tcctgcagac gagctatttc tgctactggg ttcacagtgc ttggcatagt 360  
gaacaagctc ctaactgttg tgattaattt gcttatctgg gacaagcatg cctcttttgt 420  
ggggtaccat tgggctcttg atatgcat 448

<210> 41994

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C8

<400> 41994

gccttaccct cgaagccgaa ggcctcgtgc cttctcttcc tccctggcat ggaggaagta 60  
gctgtttcgc ctatgatcgt tgccgccgta gtgctggaca acaatggcgc tgacgcggtc 120  
tcctgcactg ccatccctag cgtaacaata agcctagagg agaaagaaaa tatcaatggg 180  
gatgttccca cgatcacctc ggccgcaagc aacgaggagg aggcgttggt cagtgtcgga 240  
gaatccacca aggacgatgg ccatcgcttg acgatggaat gctccactcc cgtctcttcc 300  
agtagccctt ccaactcgcaa gaagcgc 327

<210> 41995

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-C9

<400> 41995

ggaatcccggtcgcaccagcg tccgtaacaa agcttagaga ctgagtctga gcctttgagg 60

aaggggagga gaaggcaagc tacaaaggtg ctacgcctgg gttccggccg ctccctgtca 120  
tgaactggct tcacgtctcc tcgctctct tctcgttctt gctgcgcctc tctcatactc 180  
gcnccgacat atccagatcg cgcagccgta ccgcgacctc tctcgtgctc ggggcccgcg 240  
cgcccggcgc gggaccagcg ggggaggcct cgcggctcca cgcctgcctc cggttcctcg 300  
ccccggccaa cccac 316

<210> 41996  
<211> 354  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-013-Q1-K1-D1

<400> 41996

agaggatcaa ggagatgttc tcccccttct cctcttgaag atttcttggg gaaaccctag 60  
gtggctacac tccagatcat gtctagtaca tttcttcttc ttcgatgaag gtgcttgttg 120  
ctcatcaagg ggagtgggaa gtagcagcac atccaccttc attctcataa taatgctgcc 180  
cagacgcagc catgatttaa ttagaaactt cttgtcaaag gatgtttgtt tttaactagt 240  
cgtgcgcact gattaattca gttcatgttg ttatggttgt cttcccattg ctagcagatt 300  
attaatgtct tatatgtttt cttatcatga tatctattta tactttgntg cttc 354

<210> 41997  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D12

<400> 41997

cacacttttc tctctctgta tggtgtgtaa ttcaatgtgt tttcatgaac acacatgtgg 60  
aatggagtag tttgaattta aattacattt gacttgcttg taacatgatt tcatgggtac 120  
cttatttgca gttgaggggt cctattttga gaagttctat aagcaaacgg ctgatatgga 180  
tccagctcag cgtgctgcct ttctcgagga agatgatgag atggaagatg cacattctgt 240  
tgctgcatct gctggtgaca ctgatgctaa tggtgatgtt aatgaacatt ttgtatgttt 300



ctcctgtggt gatggtgaac tttatgagct tgatggacga aaatcac 347

<210> 41998  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B5

<400> 41998

aaaaaaaaa aaaaaaaaaa aaattatttt taaaaaaaaa aaaaaaaaaa aaaagaggag 60  
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
agggccgccc cttttaaaagg atccaatctt acttccccctt ccttgcggcg ccctctttttt 180  
tttttcgggt ccctaaattc catttctttg cccgttggtt tacaacttgg ggcttgga 240  
aacctttcct ttccccactt taatccccctt tcggcacatg caactttcgc cggttgcca 300  
aataataaaa aggc 314

<210> 41999  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A1

<400> 41999

aaagtgggtt ggggtgtgaaa actgttgctt ggtcaccatg tggacagttt ttagcagggg 60  
gaagctatga tcaagcagta cggactttga atcacttgac gtggaaaact tttgaggagt 120  
tctcacatgc agggatatatt cgtagtcctt gcaatgctgc tatttataag gaagtggatg 180  
acccatggca gcttgatatg tcggaattat gtctaagtga aggcctctct cgtaacatgc 240  
cagacaatgg tgcagaaaat ggcaccgagg gaggaggctc tagagttaaa tatgctgtga 300  
tgatgttcc catcacctta ccttcgttga aaccagcttt tgacaagcct aaccccaa 360  
aaggcattgg tatgctgtca tggagc 386

<210> 42000  
<211> 217  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A10

<400> 42000

ggtggtggcc ccgcctgaga ggaaatacag tgtctggata ggaagatcca tccttgccctg 60  
cctgagcacc ttccaacaga tgtggatctc aaaggctgag tatgacgagt caagacctgg 120  
gattgttcat cggaagtgtc tctaagctct ggggtccccct tcggcttcat tttatttatt 180  
ccttgagtgg ttttcatata aactactaat gttggga 217

<210> 42001

<211> 175

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-A12

<400> 42001

cccacgcgtc cgcccacgcg tccggggccaa gnacgtaaga agtcntntaa ttnnattggg 60  
atcgaataaa ctccattattg gggcctctct tcattagcac gctcaccagc ttgtaatctg 120  
ccgcatctaa gcaaagactt cattcactta ttgactgatt tgtacgcctc ttgaa 175

<210> 42002

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A2

<400> 42002

gaagagtcaa agggcatcga tgctaaagcg tccgggcctg gtgggtcctt cgacatcagc 60  
aagttgggcg cctccggcaa tggcaagaca gacagcacga aggctgtgca ggaggcatgg 120  
gcatcggcgt gcggcggcac tgggaagcag acaatcctca taccgaagg cgacttcctt 180  
gtcggacaac tcaacttcac aggcccttgc aaggcgacg tgaccatcca ggtggatggc 240  
aatctgctgg cgaccacgga cctaagccag tacaaggacc atggtaattg gatcgagatt 300  
ctacgcgtgg ataacctggt catcaccggc aagggaacc ttgacgggca gggcccagcc 360  
gtgtggagca aga 373

<210> 42003  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A3

<400> 42003

gaagaaggct actactgcta ctggctctga tgaggaccac tcatectctc caactcgag 60  
 ccatgatggt gacaaagcag ctgcagatga tgatgacgat gatgtccagt ggcagactga 120  
 cacttcaatt gaggctgcga agcagcgcat gcaagagcag ctgagtgcag caactgctga 180  
 aatggtgatg ctgtcgactg aggagactga gaagaagatg aaacaggcaa cccacaaaga 240  
 tggaagcact aatggttcag caaaagaaat ccctaataac aagcctgccg tcactaagcc 300  
 tagtccctat gaagaactga ttggagacat caaggctagc ctaggaagtg ctccgacccc 360  
 taccagc 368

<210> 42004  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A5

<400> 42004

ctctcgtcc ccatctctc cccacccgca tccaagggtt tccttctcga ccgtgcggaa 60  
 cgagccagag aacaggatg ggcgcggcgc ggcacctcag atccggcctc cccctctcc 120  
 gcgcccacct cgcacctcc gaatccgcgc ccgtcgctca ggtttcgagg ggcttcgcgt 180  
 cgcaggccgc taagcccacc gggaaggaga tcaagggtcc aaaagctctg tttggcggca 240  
 caggcaacta tgccagtgc ctgttctca cagcagctaa atctaatac ttggaca 297

<210> 42005  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A6

<400> 42005

gtatgacaga gaggcctttg gtagagagta ggctgctgac cgcgtgtaca tgcacgatat 60

aatggatgac ggtataaaca tgagcatcaa cagtatagtc cctgacctcc ttgatgattc 120  
cattgaaggg gtgtaccgtt ttaagaagga tcctcgggca gatatgaagg cagcatctgc 180  
aagactcaga gaagacgatg ggtc 204

<210> 42006  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A7

<400> 42006

ttactatgtc atttgcccca ggagacgagc atgaggctca gatacaattg ccctagagcg 60  
tggaattgca gcatatgtag cagtaattgg aacacaaaag cttccgttta ctgataatgt 120  
gttcgatgtt gtacactgtg caaggtgcag ggtccattgg tatgcaaattg gtggaaaacc 180  
attcgtggag cttaatagag tactgatgcc tggaggatat ttcatttggg ctgcaacccc 240  
tgtctaccgt caagagcaaa gagactcaga tgacttgaat gcaat 285

<210> 42007  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A8

<400> 42007

gagcgatgtg ctgttttcgat ctgagccttg gcggagatcg agagagcgat gtgctgtggc 60  
ggcggcggtg gagcagcccc aggacgcggt gaaactcttc aaccgctgga ctttcgacga 120  
cgtccaggtg aacgatattc cgctgaacga ctacctggct gtgactgcgg cgaagcacgc 180  
gacattcctg ccgcactccg cggggcgcta ctccaagaag cggttccgca aggcgcagtg 240  
cgccatcgtc gagcgctca ccaactcgct catgatgcac gggcgcaaca acggcaagaa 300  
ggatcatggc gttcgcatca tgaagcacac cctggagatc atccaactgc tcaactgacg 359

<210> 42008  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B1

<400> 42008

atcgcatctg cttccagagc ccctcgccgc cgctgcgccc tctctctcggc cctgcctgac 60  
gtcgaggtaa aaggacagca tgggtgagggc cagcgtgctc aatgatgctc tcaagtccat 120  
gtacaatgct gaaaagatag ggaaacgtca ggtcatgac aggccgtcat ccaaggtgat 180  
catcaagttc ctgacgggtc tgcagcgcca tggctacatt ggtgagttcg agtacgtgga 240  
tgaccacaga gctgggaaga tctgtgtgga gctgaatgga agactgaata aatgtggtgt 300  
tattagccca cgttttgatg taggtgttaa ggagatcgag ggatggacgg cgaggtttct 360  
tccatctcgc cagtttggtt acatcgtcct aacaac 396

<210> 42009

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B10

<400> 42009

gtcgacggct ccagcgacgg cagcagcctc gagtccgaaa gccgcgtcgt ctacgcgggc 60  
atgaagctgg ctgatacggg aatccgatgc gcccggcgcc ggcgcggcg cgggggccgt 120  
cgtccggttg aactgagaag cgtgcgtcca gccaaagcaag gtggtcaaaa ccgaaaacta 180  
attaagggtt cgattgtgtg tccggctact actgttcttg ccataattat atatagatac 240  
gcaaagtgtg gccaaagccta cccacatgca tgctattgca tgcctccgaa tatatattat 300  
ccgactcgat cctgccaaat tggttcgtcg acttcattat atatatccca tccctttaat 360  
ttaatggaga agtgtgactg ctgttcgtg 389

<210> 42010

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B12

<400> 42010

cggacgcgtg gggtttgttt gagcatgtat aacctctcct ataaaagacc agtatgatgt 60

ttgtgtatga gttcaatgtt atgtcgacta aggtagactg ttgtgttcga ggtoctcttt 120  
 tattactggt ttcatagttt gtgagatgat catgatttca ttttttggtt tttaaatttg 180  
 tacagtcaca gcaattgtcc ttttgccctac ctgtatcatt ctgtcatact atctgcaatt 240  
 cagctatgca cagaactatc aaaagcaagc aaagatgctc tagagtacct gaggaaggta 300  
 agggcatcta tttcttacca caaggcccaa accaatataa gtataatgtt ttcatacaatt 360  
 ggtctatgta aacctgtgta tgtgtatgtt ttaatgcaat ctaattcat 409

<210> 42011  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B2

<400> 42011

ccttcaccac catcacctcc accgttggtt aaatcaccgc caccaccggt gccggtgagg 60  
 tcacctccat cgtcagtga atcaccacct ccttcaccac tgtaagtgc gccgccgcca 120  
 ccagcgccgg tgaggtcacc tccaccgcta acgaaatcat cacctcctcc accaccgata 180  
 aggtcgccac cccaccaca agcaaactca cctcctccat cagctctaata agctcacct 240  
 cctcctccga tgcaatcccc tccaccgcct gctccagtca gctcaccacc accacctata 300  
 aaatcaccac caccggctcc agtaagtca ccacctcctc tggcgcaatc cctccacca 360  
 cctgctccag tcagctcact accaccacct gtaaaa 396

<210> 42012  
 <211> 480  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-H9

<400> 42012

atctgtttct cagcacaagg ctgaacaaga tagatttgtc gctcagttgg catctcttga 60  
 gtgtaggcat agctctgcag aaggaaagt gggagcagct cggaacatg cagcatctgc 120  
 tcaagatgag gctgcagaat ggaagaagaa atatgaaatg gctgccgtgc aggctaaaac 180

tgcattggag agactagcat cagtgaaga acaaattaac aaaattgcac aagaaagga 240  
 aagttctata agggcagaat ttgcctcaca tttggagga aaggaagagg aaataaggaa 300  
 attagttgct aagattagag aagcggagag tgaagaaagt gtattgactg aacgctngct 360  
 ggttgtggaa tcaaaaacac aaggccacaa caaggaaact accagcttgg agggatgaaa 420  
 tcaaagaact aaccangcag ttagagtatc taagagatag agcagtatca tatgaaaagc 480

<210> 42013  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-013-Q1-K1-B4  
  
 <400> 42013

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 acgacctggt gatcgccgcg gcgctcctct atttcgctg gccatcata ccggcgctcc 120  
 caagcccgt cgcctacgcc gcctggccgc tgtactggat cgcgcagggg tgcgtgtgca 180  
 ccggcggtgt ggtcatcgcg cagcagtgcg gccaccacgc cttctcggac tactcgctcc 240  
 tggacgacgt ggtcggcctg gtgctgcaact cgtcgctcat ggtgccctac ttctcgtgga 300  
 agtacagnca ccggcgccac cacttcaaca cgggggtccct ggagcgcgac gaggtgttcg 360  
 tgcccaagaa gaaggaggcg ctgccgtggt acaccccgta cgtgtacaac aacc 414

<210> 42014  
 <211> 221  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-012-Q1-K1-G10  
  
 <400> 42014

taccatttct cttctccacc ccatagcacc ttactctaa aactcttggt gtagcaactc 60  
 tgctccatac tttatattgt ttcttataac cattcgcaat tgccctataa taactcaaaa 120  
 cttcattact aactttcttt tttttatttt tcacagtatc ataaaattta ctacaacaaa 180  
 ttattctgca tctccaaaaa ctctataaat cttacacccc t 221

<210> 42015  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G11

<400> 42015

ggttttgtta agaaattggc tagtgtatgt caagtgattg aactagggtg gaaagaagtc 60  
 gagttgcagg taattttact taacttgaca aataaaactg gatttttaag gatccacttt 120  
 agtaagcatt tctgcaaac agagtctttg attattgaga agccttacct tgactccctt 180  
 ataaccagca tacccttgag agtctttcct ttagtcgggt aagacttgct gagtaattcc 240  
 atactcaggg ttttattccc cgttgTTTT aggtgaggaa gcgacaaatt tttgttgctt 300  
 ctgctctaag gtggtgccaa aagaagaacg caaggaatga agtgcgtag gaaaggatcc 360  
 tccatttagg acttttgtgt aaaaacttat cgggaggagt ttttgctcc cttggtatgt 420  
 gtaataaata tactctgc 438

<210> 42016  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G2

<400> 42016

gcagcagcaa gccacccgt tcgacgacat ggtccgtctc ggcgccggcg ccgtgttggc 60  
 gtccttagtg gcggtcgcg cggtggccgc gttcctcgcg gtgccggcct cggcgaagtc 120  
 cggggagctg agcgcgatgg ggttgctggc ggcgaagggc ggcagcggcg cgggcccgc 180  
 gaagtgctcg ggcgcggtgg gcgagtgcga cgtggacgag gcggaggagc tcgggctgag 240  
 cggcggcggc ctcggtccg acgacgcggt gcggcgagc ctggcgagc ggaagccgac 300  
 caaccggtac atcagctacg cggcgctgcg cgcggaccac gtgccgtgca acaagcgcg 360  
 ccggtcctac tacagcaact 380

<210> 42017  
 <211> 363  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3075-012-Q1-K1-G3

<400> 42017

agagcggcac gcaccttgca gaggaggagc tggcccttc cgcgtctctc aagttcattc 60  
ccaggagac tgattccgtg gtcttcaccg gtttgcttga tgagcttctg gaggccagtg 120  
agccgcttcc tgctgcatca caatgaagtg tgtgtatata gcagttcggt ctggtgctgt 180  
ttctgcttgc tgcatacacag gattacttgg ataacggtac gtatttgtat tggctgacat 240  
atcttggtga aaggctgaca tactcgagaa attcgtagg cccatgctga actggatatg 300  
ggctggactg ggctggactg gactgtaaaa ctcaatacat ggcaagattg cttgaaaana 360  
aaa 363

<210> 42018  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G4

<400> 42018

gtcactcaat tgagaggtga gcagaatgga cagtgaaaag tttgtagtca caaatcttag 60  
tgcatgtcat cttttggtat acaaaagcct ggacaactat tgcaagggt actaggattc 120  
atcaatggat ctgtgggaga ggtgtttgca gcttgacga tgtaataggt tgaattgctt 180  
tattcacatg tggcgttgct atagttgttt agattaccat tactatatct caatatgtat 240  
gctaagtacc atatctgctt gaatttatgt ttattgacat tttccccg 288

<210> 42019  
<211> 368  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-012-Q1-K1-G5

<400> 42019

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cgcgggacct ccaacacgcc ggaggccatc acgctcaact gcgccaacaa cctgccatgc 120

cagggcgtgc agctcgtcaa cgtcgacatc aagtacaatg gatccggcaa caagaccatg 180  
gccgtctgca agaacgccat cggcaagtcc atcggcttgg caaaggagct cgcttgcac 240  
tgaaccaatt gactaacatg catatattat atatataatc actcttcgta acctctctct 300  
ttctcacgta ctctcaagtc tccaccgaat atataatccg cttgtttgtn naaaaaaaaa 360  
aaaannna 368

<210> 42020  
<211> 479  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G6

<400> 42020

gcgacaagat atatttttaga cattttaagt ttgataatgg atccaagata tgttacttta 60  
ttgatcttct tagtacttgc cttacatgga gatactactt tggcagaaac ttgcaggcag 120  
ttcgttaaag tgcattccatt ctgctttaa gcaatgtgca aggcaaattg tgctatagag 180  
ggaaaattct ctgatgggtc ctatgtaaag gattacagat gtgaatcagg tggatttcac 240  
tcagtgtgcg tttgcatttt ttgcaaacat tagttatcta aagacaagcg gagatatctt 300  
cttgatttcc tatatgttat ttaggagtat tgccaaataa ttatacggta gcttagtta 360  
ctagctagtt tgtttattta tagacatatg tagcactagt taactagttg gtatttctta 420  
aattatcagc tatgtaccaa gaaacatgtt ttcagcgctt caataatata tctttggtc 479

<210> 42021  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G9

<400> 42021

gacgaattgc agaatgatga tgccgaagca cgcacaaac tctggatccg gcatatcctg 60  
aagtgcacaaa ctgggggtact aggggtgtgt ttggcatggc tctgctccac cccagagcag 120  
ctctactcta aaactctggg tggagcagct ctgctccaga gtttagattg tttctcataa 180  
ccagtggcaa tggcggttaa ataactcaa actccatgac taggttgctt ttttgagtt 240

ttcagagcag caaaagaggt actccaaaaa attgtactgc agctccaaaa actctataga 300  
 gtttacaact ctggagttag ggtgtttggc atgctctggc cagctcctcc ttggagtttt 360  
 gctctggagc catgccaaac aggccctaag agtccgattt ccattcagct gcatatacga 420  
 aatgaca 427

<210> 42022  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-H1

<400> 42022

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 aggcgaagga tgggtgctgc ctcccgtgct gtcgtcgtcg tcgtcggcct cctcgtcgcc 120  
 gcgtcctccc tcgccgtcgc tgcctccgat ggcgggtggc cgacgtacgg gtacacggcg 180  
 gggagccccg acgggcccga gaactggggc aagctgagcc ccgcgtacaa gctgtgcggg 240  
 caggggaagc agcagtcctc gatcgacatc gtcaccaagc agggccgtcc ccaacgccaa 300  
 cctcgacacc ctcaaccgca cctacgccgn caccgncgnc acgtcatta acgaacggcc 360  
 acgacatcac gatgacgttc gagggcaagg tcgggacggt aatggtgaac ggcaaggcgt 420  
 acagcttcga gaagatgcac 440

<210> 42023  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H10

<400> 42023

cccacgcgtc cgcccacgcg tccgctgacg cgtgggcgaa tgcacttaca agttctttaa 60  
 cgaaagggtc aatctgaggt cagtgaataa tgaagaacaa gctggatctg aaaatgatga 120  
 tgaagggaac agcagacctt cctttttgtc cgtggaaaag ggcgctggtt ccttggacaa 180  
 ggaactagct gccagtggat ttaccaggaa agagcaagtg gatatggata agtacatcga 240

ggagggttggtt gaagggcacg gttccagctc agatgatgac aatgatgagg ttggtgatgc 300  
 tgtgcctttg gtttctttca agatagacca agacagttcc gatgagcctg attgtgatct 360  
 taccccaagt gat 373

<210> 42024  
 <211> 158  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H11

<400> 42024

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 ggcacccgctc ccgatcccgga ccagctttga gatcgcgatg gcggacggcc gctgctgcac 120  
 cttcctggag atcctcttcg gcatcactct cccggccc 158

<210> 42025  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H12

<400> 42025

gatcacgaca agatggcgtg cacaacaat gcgatgagag ccttgttcct cctggtgctc 60  
 tgggtgcatcg tgcattggtga gaaggaagag tcaaagggca tcgatgcgaa agcgtccggg 120  
 cctggtgggt ccttcgacat caccaagttg ggcgccttcg gcaatggcaa gacagacagc 180  
 acgaaggctg tgcaggaggc atgggcatcg gcgtgcggcg gcactgggaa gcagacaatc 240  
 ctcatacca aggggtgactt tcttgtcgga caactcaact tcacaggccc 290

<210> 42026  
 <211> 175  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H4

<400> 42026

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gggcgagctg tcccaccccg acaccgcaa ggccgccgtg gccgagttca tctccatgct 120  
catcttcgtc ttcgccggct caggatcggg catggccttc agtaagctca cggac 175

<210> 42027  
<211> 357  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-012-Q1-K1-G1

<400> 42027

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ctgcccgcgc tgctctccgt caccgacaag aaactcggcg tcctcaacta caccagggcc 120  
gacgacgggc agatgtactt cggcgctccc ggcgccccct gcgtggccaa gctcgtgaag 180  
gtcgtcgcag cgcggccgta ctctgtgtcc atcatggaga tcagcgagcc cattttgccg 240  
gccgcgttgc cctcccccg tgcggcgccc ggccgccgcg gcaaggggtg taagcgcaag 300  
atcaagccat cagcggcaac ccatgaggat tccaacatga tcccgcgcaa gcccgtc 357

<210> 42028  
<211> 169  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H6

<400> 42028

tttgagagg aaggatgtta acttgatatc aattaaagta gaaggcaagg ttggtgggaa 60  
gcgggaggac actgaacttg tatatggaat tattgttgac aaagatatga gccatccaca 120  
aatgcaaag agaattgagg atgctaagat tgccatcttg acatgccca 169

<210> 42029  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E6

<400> 42029

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cccgtggtgg tgcacatcac ggacatgaac tatgagccta tcgcgggcgtta ccacttcgat 120  
 ttagcaggca cggcggttcgg cgccatggcc aagaagggcg aggaggagaa gctgcgcaag 180  
 gcgggcatca tcgacatgca gttccgaagg gttaagtga agtacgactc caaggtcacc 240  
 ttccaccttg aaaaggggtg cggccccaac tacctggcgc tgctgggtcaa gtacgtcgat 300  
 ggcgacggtg acattgtggc agtggacgtc aaggagaagg gctctgacac gtacgagccc 360  
 ctaaagcact cctggggcgc catctggagg aaggacagcg acaaaccgct ta 412

<210> 42030  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E7

<400> 42030

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 tgttgaagcc agagatgagc tgcacaggat gctgaacgag gatgagctac gtgatgctgt 180  
 gctgcttgtt ttccccaaca agcaagatct tcctaatagcc atgaatgctg ctgagatcac 240  
 tgacaagctt ggattacact ccctgcggca gcgacactgg tacatccaga gcacttgtgc 300  
 cacaactggc gaggggtctgt acgagggcct ggactggctg tccagcaaca ttgcgagcaa 360  
 ggcttgaata tcaaatgcga actgactaag agctccggat gtatcatgga aacttaggac 420  
 agaatc 426

<210> 42031  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E8

<400> 42031

cgtgtataga caatgcaatg agagccttgt ttcttttagc gctcttctgt gtcgtgcatg 60  
 gtgagaaggc aaagtcaaag gacaacgatg caaaagcgtc cgggcccggg gggtccttcg 120  
 acatcaccaa gttggggcgc tccggcaatg gcaagacgga tagcacgaag gctgtgcagg 180

aggcgtgggc atcagcgtgc ggcggcaccg ggaagcagac gatcctcatc cccaagggcg 240  
 acttcctcgt cggaccactc aacttcacag gcccatgcaa gggcgacgtg accatccagg 300  
 tgaatggcaa tctgctggcg accacggacc taagccagta caaggatcat ggtaattgga 360  
 tcgagattct acgcgtggac aaccttgta tcaccggcaa gggaaagctc gacgggc 417

<210> 42032  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-F1

<400> 42032

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 agcactgggtg gggcgccatc tggaggaagg acagcgacaa accgcttaag ggacccctca 120  
 ccgtccgcct cactaccgag ggaggcacca agtccgtcta cgacgatgtc atccctgcca 180  
 actggaaggc caacaccgcc tacaccgcca aataattaac tttagtgtg acaatacttt 240  
 aagccgacct atgctagcta tactagattg gggtggatcc caagcaatgc attacacatg 300  
 catgcattgg accgtgatat ctatttgcta ccactaccct attacgacag tgatgctggc 360  
 gccacaatg atggtgtcat cctccttctn catcttcttc atctncatat atagctagag 420  
 tgaga 425

<210> 42033  
 <211> 465  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-F10

<400> 42033

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 attcgatccg cctcaccgcc gccgcccgtc cgccggtcgg ccttgactgc tccgtcgcac 120  
 gtggcggttc gcagcgcgga atctaccttg tgttgagaga tccggggaaa cccttggtcc 180  
 cggtcgttcc ggctcgaatc ttctgcggac tggcaatgta agcgttctcc atcggagggc 240

gacgatctac ggggcggttg ttggcggggg cgcggaatg gagcacgtgt tcggagggaa 300  
 gtttaagctt gggaagaaga tcgggagcgg atctttcggc gagctctatc tcggcgtaa 360  
 catacagagc ggcgaggagg tggctatcaa gttggaatct tgtaaataca ggcacacctca 420  
 gcttcattat gaggcgaaac tatacatgct tctncaaggg gaact 465

<210> 42034  
 <211> 465  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-F11

<400> 42034

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 gcttttcgac aggatctgca gcgccgggag gttcagcggg gacgaggcga ggtatttctt 120  
 ccagcagctt atctgcggtg tcagctactg ccacttcatg caaatttgtc accgggactt 180  
 gaagctggag aacacgctgt tggatggcag cccggcgccg cgcctaaaga tctgcgactt 240  
 tggctactct aagtcacgc tgctgcactc aaagcctaaa tccacggttg gaactccggc 300  
 gtacattgct cgggaggtac tctctgcgc ggaatacgac ggcaagatgg cagacgtttg 360  
 gtcttggtga gtgactcttt acgtgatgct ggntggtgca taccctnttg aggaccccg 420  
 tgatcccaag aacttcagaa aaacgatggg gagaatagtg tcaat 465

<210> 42035  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-F12

<400> 42035

gtactacgcc agcaacttcg tcaacgccac agagaccaac taccgcaacg attggaatgc 60  
 agagatttcg tatgagcgag atggtgtgcc cattggcaaa agggcgact cggactggct 120  
 ttacgtcgtt ccatgggggc tctacaaggc tctgatttgg accaaggaga agttcaacag 180  
 ccctgtgatg ctcatcgag agaacggaat tgaccagcct ggaaatgaga ccttgccgtt 240



cgctctgtac gacaagttca ggatagacta cttcgagaag tacctgtacg agctccagtg 300  
 cgccatacgc gacggtgcaa acgtcttcgg ctacttcgcg tggtogetgc tggacaactt 360  
 cgagtggcgg cttcgcttca cctttcaagt ttgggatcgt gtacgtggac cggaacacgt 420  
 tcgtccggta ccc 433

<210> 42036  
 <211> 337  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-F2

<400> 42036

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 ccgtccagca gcagctcctc cgactagacg caaaaacctc ttcattctct ggaataacta 120  
 acagtatata cgttgcaccc tgatgatata gaaacatgta cgtgcatcag tgtatggaat 180  
 gcgagtggca aacacatgga atgtgcttgc ctaattattg tttatttctt tatttattat 240  
 atgtctcttc tcggttggtt tttatttttc ttaatgcag taatataatt tgttataccc 300  
 aatatagaca atgtgtgcta tgcgctttaa ttcnnaa 337

<210> 42037  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-F3

<400> 42037

accggtcggt ggaccatgct tgagtttgga aaggcgacct tgacgatgcg gaagtgcctc 60  
 tttgtccgtg cgatttttga cagaccctgt gtgcttcggt ggatctaagt tttgtcagg 120  
 tttttggagc acagggctgt tagatcacag gagacgtatg ctgatgtgta taaacagact 180  
 cgtttttttc agttgggggtt ttctcctatc tgtggagaat gtaattaatg tccaacgcat 240  
 gatgtcgtc gccacataat attttattgt atcttacttg cat 283

<210> 42038  
 <211> 372

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-F4  
  
 <400> 42038  
  
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 acaacagcca gctcgcgaaa ataatgaaga gccgcagcat ggcattcatcg gccgcgctct 120  
 tgggtgctagc cctcgcgcta gtggcggcca ccgccccaca ggtagcggag gcaaagaaga 180  
 agagagcggc ggagagcggc gagggcggcg aggcgaagaa gatccaggac gacttctgct 240  
 cgacgctgtg cgagggcaag aaggggacgg acctggtcgt gtgcaaggag tcctgcgctc 300  
 tctcccagca gtccaacctg gtgctgtacg gcaggatcca gtgcaagggc aagtgcaccg 360  
 agcagaaagg ca 372

<210> 42039  
 <211> 481  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-012-Q1-K1-F5  
  
 <400> 42039  
  
 cgggtggaac ccgatccctg acgtgagcga ctgcacatc caggagctag gcgggtgggc 60  
 gctggggcag gcgaagcacc agaagctggc cgccgacggg ctgcggttcc gccgcgtggc 120  
 gcgcggcgag cagcaggtcg tgtccgggat gaactaccgc ctctacgtcg acgccgccga 180  
 ccccgccggc cgcaccgtgc cctacgtcgc cgtcgtgtac gagcaggtct ggaccgcac 240  
 ccgccagctc gcctccttca acccggtgcc ccgcgcccc tgaaaccata cggacacggg 300  
 tgggccgaag cgaccacgac gatgttctcc gtcaattacg tgtcgagcta atcttattat 360  
 tggttctatt attataataa tgcttctccc tgttctatg gacctatagt agtataactag 420  
 tatgttgcca gggagcgagt agaccgtgtg tttcgtatc gtgggactag aataagccat 480  
 g 481

<210> 42040  
 <211> 385  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-F7

<400> 42040

cgcgcgccgc gcggggcgca gatcggctcc tgcacgtgca gcgcagccgc acgatagtga 60

agcagggagg ctgcgatagg aggcgcaggg aggggtgcgac ggaggcaaag agcaagcacc 120

tggggacttc aggtaagtag aaaaccaaca ctgaatttgt cggttctcta ttttgtgatt 180

gaccgattgg tttgttgatc tcagaaacca aaaattgttt caccgtcaag caccaatttt 240

tgggtaggta agtgttttgg gatgattctc ctatgcatca atagcaacct tgtgcttggc 300

aaagtatttt gccctgataa tgttgtaggt ttagtgaaaa gaaatatact gacatatcca 360

ccgatccatc gatgcccaat ggaga 385

<210> 42041

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-F9

<400> 42041

cggacgcgtg gggaacgtcg tacgagaacc tttctccctc ctccaccttt ctcccttttct 60

tggcacggca aaacaccttc gccggcgaga gcatggcgat ggcgtaccgt gtcctggagg 120

tcaccctggt gtcggcaaat gacctcaaga aagtgtcgct cttctcccg g actcgcatct 180

acgccgtggc ttccatctcc ggattcgacc tccgcatccc ttcccacagc acccaagcag 240

accacagcaa cggctgcaac ccctgctgga acgccgtggt acacttcccc atccccggctg 300

ccgctgacac ccgcggcctc gcactccacg tgagggtccg cgcccagcgt ctatacctgg 360

gcgatcgca catcggcgag gtgtttgtgc ccatcgac 398

<210> 42042

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E4

<400> 42042

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 ttatatgcaa gcatgtgtca gatctgggag gttggacacg ttgacatcaa ttatacagaa 120  
 atgcaagaca gctgataaga tcaaagtttt gtgtccacaa tgggacctggt gcattgacat 180  
 atcagaagct gcatttgaag ctaacaatag caaattagct ctttttgctc tggaatttct 240  
 tgcaagatgg attgttcgtg gtgagaatgt taaacctcct gttcagctgt cagttaatga 300  
 aggtcttgta atatcagctc tgagtgtgc tggcagaact tttagtactg acctcttgaa 360  
 tgctgcttgg tcgctactac ggaagtcctt gcgccagaaa agggcaccca cccagagac 420  
 atatcttgcc aagatctatg ctcac 445

<210> 42043  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-D1  
 <400> 42043

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 ggggctagct gaaggagagg gaacggaggg ggatggcgtc ccggcgacga gataagccgg 120  
 ctcttcgatc cgccgcacgg gatgagatgc tgccnaccgc ggatacgggtg ccgcgacgaa 180  
 caaataagct cgaaaggcca agttcatgac gctcgggaacc ccgccgccgg acgagctcac 240  
 cttaacgcca caaagtgacg gccatcggac agatctacgg tcttttctaat gaggcaaagc 300  
 cgggggaaga caacaggaac tacgtcgaga agatgaagaa cgagaacgtc t 351

<210> 42044  
 <211> 140  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-012-Q1-K1-D10  
 <400> 42044

ggagaagcta ctttgaagct accactgcat catggcatgt gacttgttga ataattggtt 60  
 gcaggagtag agtgccgccg ttataactta taaagcagag catgccgtgt tgatactgag 120  
 ttttttgttg gcttgaccta 140

<210> 42045  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D11

<400> 42045

atcacgacaa gatggcatgc acaaacaatg cgatgagagc cttgttcctc ctggtcctct 60  
 tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120  
 ctggtggggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180  
 cgaaagctgt gcaggaagca tgggcatcgg cgtgcggcgg cactgggaag caaacaatcc 240  
 tcatacccaa gggcgacttc cttgtcggac aactcaactt cacagggcct tgcaaggggc 300  
 gacgtgacca 310

<210> 42046  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D12

<400> 42046

tgacgagatc gcatttatca cggaatcagc ttccaactat tccaatctgt ccaaggtgca 60  
 tgctgccgag aatgccaaagc ctcttgaaaa gattgagttt gagaaggtgt tacgcaagaa 120  
 gtttgctcac caggatgagg agtatgattc ctccatcggc atcactcgag gggccccacc 180  
 ggagctgaca tccccaaatc cagcccaata aacctctgtt tttgtttctg ttttctcttt 240  
 gacgccttaa tcattttgta ttggacagcg ctggattttg aaccggggcca tagttccatg 300  
 acttaagtgg cttatgttta cttttcctcc ccaataatct tgggtcgagc gatgttataa 360  
 agctggccat gcact 375

<210> 42047  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D3

<400> 42047

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gcgcctcctc tgggtgactg gtaccgctgc catgtgccgt gcagtgcgtt ggtgggatcc 120  
tgtcgtcgtg gtgggaatcc agcgccctg ggtaattcgg gtgtgcgccc acatttggcc 180  
tcggtgacca gctacaggat tccgccggac atctccagt caaatcatgt ggtcattccg 240  
ggtggattga tgccggggga ccctgggatt gttcaccgga aaatctacac agcggaag 300  
cgactctgag cggtgaccgg agtgattacg ccatcccatt tggtaagaag cttacc 356

<210> 42048

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D4

<400> 42048

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actgttgctc ctatccgtgg tctgtttcac tccaatactg gatctgttgg tcctttgtgc 120  
tcacctcgt ctgtaagggt ctcttcgcat tcaaaccctg agcaataccc caaccacaat 180  
tcatacaatt ctcaagtacc aagcactgca agttcctcaa cgctgaatta tgggtcacia 240  
tatggaggct ttgaaccatc cattaaccga tttcccaaga gacattgaac caacttggtg 300  
ccccgatcca gttgagagca ttcttgata ctctggtgat gtccctgctg ggaataattt 360  
gactgggacc acttctattg gagcttcaga tgatcttact 400

<210> 42049

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-D5

<400> 42049

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ctcgaaggag aatttccatt cgaccccatc cacttctcac ctcaatctcg cgagaagcga 120

agccggagga ggaggggtgcg aggagatcgc gaggagccgg agccggagcc ggagccggag 180  
gcctagtaga tgaagacgtt cgatccgtgg ccggtcttct tccgccggga gtggaagcgc 240  
aattggccct tcttcacggg gttcgccatc accggcttca tcatcactaa gatgacggcc 300  
aacttcaccg aggaggacct caagaactcc aagttcgtcc aggagcacia gaagcgc 357

<210> 42050  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D6

<400> 42050

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ctgaccagca tgcattgcgc gccggcgccg aatggcgccg gcgacgtgca gaagcctcag 120  
cagcagccgc tgggtggcggg gccggccccc ccaccgccgg cggcgcccggt ggtgccgccc 180  
cattgggtcg ccatgccgtt cgcgccgcct tccggggcca cggccatggt gatgcagccg 240  
caccatatgg cgctccgcc gccgcagttc gcgcgcactc atttcgtgcc gttccacgcc 300  
gtcgcgccgg caccgtcggg gccagcagcg gtcgcactgg gtttcccagc gccgcatacag 360  
ccccggcagg aggaagacaa gagcgtgtgg gtc 393

<210> 42051  
<211> 335  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D7

<400> 42051

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tgattacgac gaggaattag gaaaggcctt attcaatggc ttgccaaacc cttttacagc 120  
ggcgaggtag cacagcttag tcattgagaa agaaaccttc ccacatgatg ctttggaggc 180  
taccgcatgg actgaagatg gactcatcat ggctgctcgc cacaagaagt acaaacacat 240  
ccagggtgtc cagttccatc cggagagcat catcaccctt gaaggcaaga aaatcatcct 300  
caactttgtc agattcattg aagagctgga gaagc 335

<210> 42052  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-012-Q1-K1-D8  
  
 <400> 42052  
  
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 ctgaggcaag ccgaccgccg acgtaccacc ggcccaaccc gagagaaaga tggagatgat 120  
 caagaggatc ctcatcgccg cgctcctcgt agtcgccgtc tcggccaccg cagtgcctggc 180  
 ctccaccgag gccgcgcgcg ccgggtgccc cagccgcctt cgagtcgtcg gcgttcgccg 240  
 aagccccgcg tggcgccgtc ggcgcggcg ccggcaccgg caccgtc 287

<210> 42053  
 <211> 465  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-012-Q1-K1-D9  
  
 <400> 42053  
  
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 gggttagaga ggaagaaatt gcaaccgaaa caatggcggc agattccggc gtcgcgagac 180  
 aaccaagctt caccaaggtc gaccagctgc gccctggaac ccacggccac aacctcatcc 240  
 tcaaggttgt tgactccaag atggtcgtcc agagaggccg cgaggaggagg ccccagggaa 300  
 gacagatgag gattgcggag tgcttggttg gtgatgaaac cggcatcatt gtcttcactg 360  
 caagaaacga tcaagtggat gtaattaggc ctggaacaac tgttgaactg aggaacgcaa 420  
 agatcgacat gttcaagggt tcgatgcggc ttgcagtgga caagt 465

<210> 42054  
 <211> 363  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-012-Q1-K1-E11



<400> 42054

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cattggacca actgttgcaa atgaaccaga gcctccttta tgtcagaact caattacaag 180  
aaaggcaggt ggtaaaaagg cgcccagaaa ggagatgcag gttattgtag acatgagaga 240  
gttcatgagc agccttccga atgtattaca tcaaaaaggt atccgaatcg taccggtcac 300  
ccttgaagtt ggtgactatg tgctctctcc tttgatctgt gttgaacgga aaagtatcgc 360  
gga 363

<210> 42055

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E2

<400> 42055

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tcgtaattac gagtacaaa caaaactgag aacaccagga acacagaaca acagactgaa 180  
accagcaa at cagcgcggca agcgaccgca cgcaccgca cgcacgttcg atcgatcagc 240  
caacaacaac aacgccacct aaatcgagga acgcacgttc gatcgatcag actcaccgccg 300  
cgatcggctt cacctcacgc tgtcccgcca atcgccgccg gggcggggct tccggctccg 360  
cagcgccttg atctttcctg cgatgagcct ccccatcga ggccggcgc 409

<210> 42056

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-C9

<400> 42056

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acgcagcgcg tcgctgccag tggcagcagg gacgacggcg ccagcggcgg catcgcggcg 120

gtctcgggtc ccaacaagaa gccgggaggc ggcaggaggc ggcgcggcct ccgttcgggtc 180  
gccgccgggg tgatccatccc cgcggcgctc gtgggtctgt ccttcttcgc cgcggggccac 240  
tccacgccgc cgcgcagttc cgtcacggtg gcggtgggtg gggccgggtc ggtggcggtc 300  
gaggcggtgc tggcgcttgc ggcgtggatg gcggtgggcag agggcgggct gcacgcgcgt 360  
ncggncgaca cgctgttgcc ctacgccgcg cgggttcgcg ccgggctcgc gtggggcg 417

<210> 42057  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B2

<400> 42057

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tggactgggc tgtccactcc ttccagaatta ccaactgcga gatccaggac accaccaga 120  
tccacacca catgtgctac tccaacttca acgacatcat cactcgatc atcgacatgg 180  
acgcggacgt gatcaccatt gagaactcgc ggtccgacga gaagctgctc tccgtgttcc 240  
gcgagggcgt caagtacggc gcgggcatcg gccccgggtg ctacgacatc cactcccca 300  
ggatcccgtc ggctgaggag atcgccgacc gcatcgacaa gatgctggc 349

<210> 42058  
<211> 259  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B3

<400> 42058

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ggtaaactga gcgatcgctt cccacagcct tatgcaaagc agcaagcagc ccggtttgct 120  
aatggtggtg cataccctcc ggaccttagt gtcatacaaa aagccaggca caatggtcag 180  
aactatgttt tcgctcgttt taactggata tcatgatcca cctgctggtg atcagattcg 240  
tgagggtgtg cactacaat 259

<210> 42059  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-B4

<400> 42059

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 acgagcctcc ggagttcctc cggcgatccc cgtccccttg tgtgcgcgct ccaggagggc 120  
 cttctgcctc cagcttgcag agcccaccta attgctgcga gatggataga gggcagaacg 180  
 ggaggggatga cgtcttcgga cgcagggatc cattttctgg gtttggttc ggccccaca 240  
 ggagcttggt ttctggtctc cttgggggga gggatccatt tgacgatccg ttctttaccc 300  
 atccgttcgg gggtcggatg atgggtgacc atgacatgtt tgtacctagt cctttttggg 360  
 ccgatgggag ggccttttgg ngacatgagg aaacggtggt ttatcgagca agc 413

<210> 42060  
 <211> 200  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-B5

<400> 42060

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 cgtgggggtg gcgaccttat cgggggggga ggatgtgatg atttcgtag cgctnnactt 120  
 tacctaccg gcgcttggtg cggctgctaa cttaacagtg gtgaatgatg ttgtgtattt 180  
 cactgaccat tgaggtgacc 200

<210> 42061  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B6

<400> 42061

gcgggcagga ggtacaagg cctcaaacca gcgccgctca tctacgtcca aggcgtgttc 60

gaagacggcg cgctcaacac cgctcgacgtc cgcggaaga tcgtcttctg cgaccgctcc 120  
gaaaccgcca ccatgcgcgg cgagatggtc cgcgctgccg gcggcgtggg catcatcatg 180  
ttcaacgacg cctccgaggg cgggtgtgacg aggttcctgg ggaacgtgtc catcgcgggc 240  
gcgcgcgtca gcgaggccga cggcgccaag atcatgtcct acatcaactc cacggcgaac 300  
cccaccgcca acctccactt caccggcggtt atgttgacc cttcctacca gccggccatc 360  
gccgaatact cctcacgagg cccctgcac atgtcgaacc tcggcgtgat caagcccgac 420  
a 421

<210> 42062  
<211> 445  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-012-Q1-K1-B7  
<400> 42062

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tgggggcgcc atctggagga tggacactgc caaggcgctc aaggggccct tctccatccg 120  
cctcaccagc gagtccggca agaaggctcat cgccaaagac gtcatcccgg cgaactggag 180  
accgatgcc gtctacactt ccaacgtcca attctactag actttgaatt cccttcgatt 240  
catccggcac agcgggctat ggaccttcag cagcaagcta attaagttgg cagcatgcac 300  
cgtaaccct atatactact gagacttnca aattctagta tatgtaatcc ttttggtcgg 360  
gttcatgac gaanttcaaa gagtggaaaa caagcaaaag gttaaataata catgccatctt 420  
ttggagggca ttttttcgaa naaaa 445

<210> 42063  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-012-Q1-K1-B9  
<400> 42063

cccacgcgtc cgcttggttag cacaacaga tcgatcgatt acagcaatgg cggccaaggt 60

gtgcctcctc ctccgactca gcatggctgc cgtcgtcctg gctgccatcg ccacagtagc 120  
gctcgcggag gaagccgatc cgcgggcaact gccggcacag tggaccaccg cgaagaagta 180  
caaggccacg atggacgcca agacgcggca ggctttcgac ggctgtgtgg gccgccgcta 240  
cggcagagaa gcgggtcccag gcgggtggagg ccgtgctgca gcagcagctg aacatggacg 300  
tgtccctgtc caaggcgacg tcttccgggg acgagaacaa ctacgtgagc gtggccgccc 360  
cctacgagaa ggccgcgggc gccgtcatcg cggcgacgcc ggacaacaag ctccgcgcta 420  
tggcgttcgc gttcg 435

<210> 42064  
<211> 354  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-012-Q1-K1-C10  
<400> 42064

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aggtgttttg aaccttggat ggagaggatg ttgtcaggca ctgtgagggt atctgtccaa 120  
gccgtgctcg ggggcctttg tcaacttctt tggcttcggg nngccagagc ttagtaaatg 180  
atacctcgta aggttctctc ttgcatctgg acgaagggga tgccaggagt tcatactttt 240  
tatctaagag aagaccctta tttcgacatc gttgtacaac tcttatttgt attttaagtg 300  
gagaacctag aacacttttg ttgatagata tanctgttaa atacttctgt cgat 354

<210> 42065  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-012-Q1-K1-C11  
<400> 42065

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ggtcctcttc tgcacgtgc atggtgagaa ggaagagtca aaggcatcg atgcgaaagc 120  
gtccgggcct ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac 180

agacagcacg aaggctgtgc aggaggcatg ggcatcggca tgcggcggca ctgggaagca 240  
gacaatcctc atacccaaag gtgacttctt tgtcggacaa ctcaacttca caggcccttg 300  
caagggcgac gtgaccatcc aggtggatgg caatctgctg gcgaccacgg acctaagcca 360  
gtacaaggac catggtaant tggatcgaga ttctacgcgt ggataaacct gtcatcacccg 420  
gcaagggaaa ctttga 436

<210> 42066  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C12

<400> 42066

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gcaccttgaa cccatcgcgt aggaaggggc aaaggagtcg gagctgatcc ggcagtcgct 120  
ctctctcgga ttgagtacga tttgacgcgt ttgcggccga gctttcttgc acccaagatg 180  
agtgggcatg gtgacactgc gacctcagct aaagatggcg aaactgaagg agttgttgca 240  
aaagagtga aaccacattt gtgctgactg tgggtgcatct gatcccaaata gggcatcagc 300  
taatattggg gtattcattt gcgtaaaatg ttctggcgct catagaagtc tcggtacaca 360  
tatttcaaag gttctgtcag tgacactgga caagtggctt gacagtgaag ttgacttcat 420  
ga 422

<210> 42067  
<211> 205  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C2

<400> 42067

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tgatgaccac ggcacttgct accggaacca taaccaagac gtcgaacccc aaaagccctg 120  
ttgcggcggc caaccatac accctctgct agaacaagat cacttgatgc tgatgcttat 180  
cgatggcatg caagcatata tatac 205

<210> 42068  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C3

<400> 42068

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 cgggtggtagc cgtgggcgaa ccccatgcg cggagacggc cggagacaac aagaacctga 120  
 ccatgccggt ggctgagccc taggtgatca aggacctgtg cgggctcctg aggtgcgtct 180  
 tgctactacg gtgcggccgg ccgcttctgc tgcaggcaga cgtggacttc atggacgctg 240  
 tcggcgt 247

<210> 42069  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C4

<400> 42069

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 gcaggtgctg gcggcgatgg cactagcatt tctggtaggc ggtgcctggt gtggctctcc 120  
 caagggtccc ccgggtaaga acatcacagc caactatggt agtgattggc tagatgccaa 180  
 ggcaacatgg tatggcaagc caacaggtgc cggcccggac gacaatggtg gcggatgtgg 240  
 gtacaaggac gtgaacaagg cccctttcaa cagcatgggc gcatgtggca acgtcccat 300  
 cttcaaggat ggtctaggtt gtggatcctg cttcgagatc aagtgcgaca agccagcgga 360  
 gtgctctggc agcccgtggt ggtgtacatt acagacatga ac 402

<210> 42070  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C6

<400> 42070

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 attgtttgag tccagctggt attacgcttc aggaccgcct gaaggaaaat gaacttcggc 180  
 tatctatggt aaaagaggag tgtaagcaac tggaggctga tacccaaggc attgagaaat 240  
 ggttctcctc gtcgcctcat gaatcacgga gctgggtggca gcggttcacc tatggctcag 300  
 agcaggcatc ctttctccag ccaaaggagc cctagaagcc cgagcggcgg cagccggagg 360  
 agggcttgat gatgatcttg ctccgcctga tgcgttgatg 400

<210> 42071  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C7

<400> 42071

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 tgtaggtcat ccattctgct cgccatggtg gcgctggcta cgctattcgc ggtcggttca 120  
 tgcaccaccc cgctcacctt ccaggtcggc aagggtcca agcctggcca cttggctcctc 180  
 accccaacg ttgccaccat ctctgacgtg gagataaaag gagcacggtg gtgacgactt 240  
 ctcttttacg ctcaaggagg gtccgactgg cacttgacg cttgacacca 290

<210> 42072  
 <211> 480  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-C8

<400> 42072

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 aactgatgta ccagatcaag gtctactgtg tgacttgctt tggtcagatc caggaaaaga 120  
 tgctcaaggg tggggcatga atgatagagg ggtctcatat acctttggtg ctgacaaggt 180  
 ttcagaattc ttgcaaaagc atgatncttg atcttatctg tcgtgctcac caggttgctg 240  
 aggatgggta tgaatttttt gctgacagac agcttgctac catattctcg gcccccaatt 300



attgtggtga atttgataat gctggtgcaa tgatgagtgt cgatgaaact ttgatgtgct 360  
cattccaaat tctgaaacct gctgagagaa aaaacaaatt tatgggggtcc aacanaatgt 420  
gatagtga aa gccattttgc tccagcagct ctagcctgtt aaggttctcc tgtggatgca 480

<210> 42073

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B12

<400> 42073

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taatgaagag ccgcagcatg gcatcatcgg ccgcgctctt ggtgctagcc ctgcgcgctag 120  
tggcgggccac cgccccacag gtagcggagg caaagaagaa gagagcggcg gaaagcggcg 180  
aggcggcgga ggcgaagaag atccaagacg acttctgctc gacgctgtgc gagggcaaaa 240  
aaggggacgg acctggtcgt gtgcaaggag tcttgccgcg tctcccagca gtccaacctg 300  
gtgctgtacg gcaggatcca gtgcaagggc aagtgcaccg agcagaaggg catcacg 357

<210> 42074

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H6

<400> 42074

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tgatttctct aaggaaggcg tgccacgaaa aggatcagag cctgaaagac aaggacgacg 120  
cagttgagat gttggcaaag aaagtagata ctttgacaaa agctatggag tcagatgccca 180  
agaaatcgag gcgcgagcta gctgctatgg agaaggagct ggcagctgtg cgcttgagaga 240  
aagagcagga taacagggca agacgttttg gtagttcaag cggttctgcc agcagttcgc 300  
agctcccacc tggcaggact ttacctagga gcggctcggc gcgcaacatg tgaaggcatg 360  
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aggaacctct cattgtcctg gagaagatgg catcagcgga ag 462

<210> 42075  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H7

<400> 42075

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 atccaggacg tcaacggcag gccggcgaaac ttggtcgcca ttggcgccgg ccacgtgaac 180  
 ccgaagaagg ccatggaccc tggcctcgtg tacaacatga cggccatggg ctacgtgccg 240  
 tacctgtgcg ggctcaacta cacggacgac aaggtgagca cgatcatcta cccggagccg 300  
 ccggtgtcgt gcgccaagct gtcaaggctc gaacaggacg acctcaacta cccgtccatc 360

<210> 42076  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H9

<400> 42076

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 gtgctgttgt ttgccgtgat ttgagccggg tggaggtgtc tcgcttcttg atcttgagag 180  
 gtgttcctag ttgattgttg ggagcgaaga aggcattgata ccttctgtga ggatctctcc 240  
 tggctctgca gccttctctg gctccagcct acgcttaaaa ttacattcaa ttccatccat 300  
 ctctagtctc aaaccctcca aatatgtggt ctctcgctg aaaccactct acctagcacc 360  
 gctagatggt ccacacactt ctgagcttaa gtcttgagga caaccacttg ag 412

<210> 42077  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-A1

<400> 42077

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tgttgctgcc cagtcacctt ctcagaaatc aacgcaacgc cttcatcagg aatcacagca 180  
gccgccacaa caacagcaac cacaggtgca gcaggcgcaa ccacaaaaac aagcagcatc 240  
tgttatgcgc agagcatcat ctattgctgc tcggcaagca gcaat 285

<210> 42078

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A10

<400> 42078

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tgtctacata aagatcccag ctactgcaga atgtgttcct tccatccagg aagttatcgc 120  
taatggcatt agcgtcaacg tcacgcttat tttctcaatt gcgagatatg aggctgtgat 180  
tgatgcttac ctcatgggc tagaggcttc tggcttgagt gacttatccc gagttactag 240  
cgttgcatcc ttctttgtca gccgagtgga cacccttatt gacaaaatgc ttgacaagat 300  
tggaacacct gaggcccttg ccttgagagg aaaggctgca gtagcgcagg ccaaactagc 360  
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<210> 42079

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A11

<400> 42079

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gtttccaact ggggtttgtt cttctgtgtt tcaattgggtc tgtgggctgg ttgattatt 180

ggttttgtca cagaatacta cactagcaat gcatacagtc ccgtagcaaga tggtagcgat 240  
 tcgtgcagaa ctgggtgctgc cactaatgtc atttttggtc ttgctcttgg atacaagtcg 300  
 gttatcatcc cgattttcgc tattgtgtgt agcatctatg tcagtttctc cattgctgcg 360  
 atgtacggca ttgcagttgc cgctcttggg atgctgagca caatcgcaac tggctcttgc 420  
 attgatgctt atgggtcccat cagt 444

<210> 42080  
 <211> 188  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A12

<400> 42080

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 tctccctctt ttacttgttt tccgtactgc atttattatt gggtttgaca cacaatactc 180  
 ctctaaca 188

<210> 42081  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-A2

<400> 42081

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 gtcttcattt gctgccggcg cggcgacngc ttcggcggcg gggttcttcc tctctacaa 180  
 agaccacctg ctgcccgcg ctgccatcat cagccaggtg gaggacatca aggaaacttc 240  
 tgaaaagcat tatgcagccc taaataagag gata 274

<210> 42082  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A4

<400> 42082

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ctgggtgggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180  
cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240  
tcatacccaa ggggtgacttc cttgtcggac aactcaactt cacaggccct tgcaagggcg 300  
acgtgaccat ccaggtggat ggcaatctgc tggcgaccac ggacctaaagc cagtacaagg 360  
ggaccatggt aatggatcga gattctacgt gtggat 396

<210> 42083

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A5

<400> 42083

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aggggtgtgag accgtaacta agagctatct agcaataata catacatagc tataccctct 120  
ttaggtcaag aggggtggagt tctccttatt cggaggaaga gctccatcct cattctacaa 180  
gaccaaacca ataaatggcc tctagccac agtcctcgcc atcattctcc aagaagtcgc 240  
cgccaccaca agaagcatca gctttggcgc caaatcatc ttcaaagtca ccctcgccac 300  
caaagggtga atcaaattca tctcccagtc ccca 335

<210> 42084

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A6

<400> 42084

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caggacaagg agggcatccc acctgaccag caacgtctca tctttgccgg caagcagttg 180  
gaggatggga ggacccttgc tgactacaac atccagaagg agagcaccct ccacttggtg 240  
ctgcgtctta ggggtggaat gcagatcttt gtgaaaaccc ttactggcaa gaccatcact 300  
cttgaggtgg agtcttcaga taccattgac aatgtc 336

<210> 42085  
<211> 164  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-012-Q1-K1-A7

<400> 42085

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agccagctcg cgaaaataat gaagagccgc agcatggcat catcgccgc gctcttggtg 120  
ctagccctcg cgctagtggc ggccaccgcc ccacaggtag cgga 164

<210> 42086  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A8

<400> 42086

ctcaagggaa aggagccgtg cagcttggga agctattgat gagtatttga tgcccttcgt 60  
ggaaaaagaa aaatatgaac tccaagcaa atgtagactt cgtcctgata atgacatgtt 120  
tcgggagcaa gagcaacata agattcattt tgatattaat gagtggcact gtggcttttg 180  
caagaaagct ttccgagcag agaagttcat tgatcagcat ttgaaaatc gccacaagaa 240  
tcttgtggat aatagtgaag gaagatgcat ggcagatcta tgcggcgcac tacattgtga 300  
tctgatgatg cagttcaaaa aaccaaaaag ttaatg 336

<210> 42087  
<211> 257  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A9

<400> 42087

gtttcagatg cagttgttga aaaggctgca gattatgctc ttgtatggat caataggctg 60  
ctggctgtcg gtcatgacat cgccatcaag agaaatagga aagtttttat aaaggtgata 120  
ttgattttgt ggctggtttc atttgttga atgctcttca actttcttac actcatttac 180  
attggtgtaa tgctttctct gttggttcca ccactctatg agaagtatca ggatcagggt 240  
gatgaaaagg ttggcgt 257

<210> 42088

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B1

<400> 42088

aaccgcaaca atggcggcca tggcgaacac ctctcgtctc cccacccct gcagcctccc 60  
aaccatcagc atcggcgcta agagcaggag gctagctgtg gcggccgtca gatgcgggtcc 120  
cggcggcagc aggagccacc ggaggagcct tggggctctt ctgtgtcgat cctcgtccac 180  
ggccggagcc caagggagca cgaggatgga ggactataac accgccatga agcggatgat 240  
gcgtaacccc tacgagtacc atcacgatct cggcatgaac tatgctgtca taagtgagag 300  
cttga 305

<210> 42089

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B10

<400> 42089

cccacgcgtc cggttgga gagaggagg cggcgctcgg cgtgcctagc tcgatcttga 60  
accatagcta gccagcatgg cgcccagcag cagcatagca gtactgctgc tctcgtcgt 120  
cgccgtcgtc ctctccaacg tcccctctc gggcgccctg gctcctcgt cgtcgtctct 180  
gctgcaccag tcgtctccgt ctgagagtga gactgagacc gacagtagca gcggagaatc 240

ttcgtcgtcg tcgtcgtcgg aggaggagga ggccccggcga gaaggagaag gagaaggagc 300  
aagagatgga gaaggccggt cgcggcggag aaggctgccc agcaggagct gctcaagtac 360

<210> 42090  
<211> 461  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-012-Q1-K1-B11

<400> 42090

cccacgcgtc cgggaactta tacatgggat caagaagagg atcatgatga aggatgcgag 60  
agttcagtac ctctcattgg tcttgcttga gactattgtt aagaactgtg agaaggcctt 120  
ctcagaagtt gcggccgaac gggttcttga tgagatggtc aggttgattg atgatacctca 180  
gaccgtgggtg aataacagga acaaggccct tatgctgatt aaagcatggg gagagtccgg 240  
tgatgaactc cgctatctgc cagtctatga gggaaaccgt acaagagctt gaaaatcaag 300  
agtgcgggtt tctggacgtg acaatgagag cttgggtccc atatttactc ccccacgac 360  
agttgctgaa gctgatgttg aaaccagctt gccccagcag gcgttcgaag acgtncatgt 420  
tcatacatat actgctgaag aaacaaaaga aagcgttgat g 461

<210> 42091  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H5

<400> 42091

gatgccaggt ggtctctaca tgccattaaa gtttgggggtg acttgctaaa caaaaatgca 60  
cttcgctggg tggttgctaa ggagaattgt agcataataa ttgggactat gtttcgacga 120  
tttagaaggc aagggtgtca ttccaataaa cataaaaaat tttacttggg acctggcgat 180  
tgtcaatgct aaaaaaatg aggtacatat actcgattct atgggaccac aaataacgga 240  
tcgtcgagac ctttatacta caggtttctt gcggtctatg gatggtgaac tatatggaat 300  
attggacagg gtcttctttg tctaataaca taactcagaa tgatataaca aagtttagat 360  
ttaagctacc tgcaatattg tggaactcaa gattaaacac aaagaaagga catcaagaga 420



<210> 42092  
<211> 466  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-011-Q1-K1-G2

<400> 42092

aacagattat actatggaga gggaagggtc gccaaagagcg ttctgtttca gcagagtgc 60  
gttccagccc acaatgatgc acgcatctgc cgggtgattca caggagttat tattgcgctg 120  
cgatattgat gatgggttcgg gcggattgct gtctgtggac cgtgggtgggg gcgaggggcg 180  
aagccggcca ccagtgattc agtgaagaag aaaacaaacc aacacatttg tgtaatcaac 240  
tttgatgaaa cttcaattga ggcgcggcac aaaaatggtg aatatggcac ttagatgcat 300  
tgtttcgatg aatccagggt ttgtgaattt agaccgtttg agaaagtttt tgtagaataa 360  
agctcagcct gttcatttgc ttttaatctt tatcggtctg ttttacgttg ttttgcttct 420  
atcaattgta gcagctacaa taattcgaac aattgactnt aatatg 466

<210> 42093  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G3

<400> 42093

gccaccatct atccatagag gtgcgaggcc atggcggccc aggaggcggg tccgatcgac 60  
gccatcgga gccagctgga gataagtctc gtcgggctgg agcacgcggg ctttctcact 120  
aacaatctcg acctcgccgg acagaccttc gtcgtcgaaa aagtccaggg gcgccaggcg 180  
ccggccttgc ttgaggatc ccagagggcc gtctgccatc ccaagaggaa gtgggtggtc 240  
cgcataccca acaccttgaa gttgcgccac atcgccagga tttcgaatga gatcgagggtg 300  
gtcgttgccg tcgtgatccc tcaactgctc cgcgacaatg ttgacccac cggcgcgga 360  
ctcctacgcc gctacgcttg gtccatctgt catcgggcga ggaagggtga tggcgcccc 420

aggattcctg gg

432

<210> 42094  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G5

<400> 42094

tttacttttg ccgctcgggt taccctgtgg acccaacaga tcctgaatat gagcagaaat 60  
ctgcatttgg gaggacgcac cctgttgtgg cattcttgcc aaaatcaaaa gctggtaaaa 120  
agaagagctt gcttggggat tcagaagagc ctgaagagca agcaccacct aagggaata 180  
aagaatttga ggataaagat gaggggccga ctgaatattt atcttattgg aaaccaaattg 240  
taacagtaaa tcttgttgaa gacttcacac ggtataccaa caataatgta ccggccatcg 300  
ttgctccata tctgaatgtg gatccagcta caggcgatta ttatcctaca gtattcttca 360  
acgagttttg gcttttgagg gataaattaa tagcgctcaa tgaga 405

<210> 42095  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G6

<400> 42095

cccacgcgtc cgaaaaggga cttccgttcc gtgctagcgc gcgatcgctt cggcctccac 60  
tccaccttcc cgaaaagct taccctttgt gtttgtgtgt ctgtctggca atcgatcgat 120  
ctccatgacg acgtccccgc cgcgcgcacg cctgctcgcc atggcgctgg cgctggcatt 180  
cgctgcgtg ctgctcgtca ggtccgcgga cgcgcgcacg cccggcggtt ccgcgtacgg 240  
gtgcaacccg gccacggaca ggacgtgcag gcccagagggc gtcgggggtg tgctgcccga 300  
cggcggcatt gacctcgacg gcgacggcga cgaggacgag ctgccgcagt tcgacccaca 360  
cttcacgata ctcgcccatg cccagtgagt gtg 393

<210> 42096  
<211> 467  
<212> DNA

<213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-011-Q1-K1-G8

<400> 42096

gagcaacagc ggtcttccgg tcgctgggag catgagcgtc gagcgccaac tccactccag 60  
 gccgccgtgt ttggctcgac gatgggatgt ccacctgctg ccacaaggaa cgtcgaaggc 120  
 ccttggaggc accacgacgc aaaccagca cgggagggag gtttcgggta tctcataacc 180  
 cataacttcc tcccgaccaa tggatatggt cctggatcga acccattcct tcagcaattc 240  
 cacatatggt gcatgatgct tttggaagtc atccacattc tcaattcgac cgacctctgg 300  
 gtaacatacc taaggttcca tttccgngt tcgatgggga aaatcctaaa ctatggcaga 360  
 cacgatgtca agattatttc accatgtatt ctgttgacac tagtgtgtgg attaggattg 420  
 ctcgcatgca ttttacgng tctgcagcac gatggctcca atcggtg 467

<210> 42097  
 <211> 471  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G9

<400> 42097

cggacgcgtg gcgtgggatc gagttgtttc actgcacgag cacatcctcc ggcgaccacc 60  
 ggggtccctc ttcgtcctct agcgaccgac caacgcgccg agcgaagatg tcgtggcaga 120  
 cgtacgtgga cgagcacctg atgtgcgaca tcgagggcca ccacctcacg tgggcgggtca 180  
 tcgttggaca cgacggcgcc acctgggctc agagcaccgg gttccccgag ttttaagccc 240  
 aggagatggc tgccatcatg aatgatttcg acgagccgtg gcacctcgcc ccgaccggcc 300  
 tgatcctggg aggcacaaaa tacatggtca tacaaggcga acctggagct gtcacccgtg 360  
 gcaagaaggg atccgggggc attactgtga agaatacagg gcagtcactc atcattggca 420  
 tctacgacga gcccatgact gccggcagtg caacctggtg tggaaaggct g 471

<210> 42098  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-011-Q1-K1-H1

<400> 42098

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tagcagcagc cggcgtgtga cgctggtact gctcgggtctc cgctgctgc ttctggttgg 120  
tgttgccgat gcggtagtgg agttggtgcc tgctgatgat aatatcgccg tcgccgctgc 180  
tggcacggcg gtggacgatg gcgagccgtc tcagcagtgc gcgaccccg tgagcgtgga 240  
ngaagcgtgc cggggcggt tcgagacgca cgccggcggtg gcctacgacc actgcatggc 300  
gtcgtttggc gccgacccgc gcagcaagga tgccggcaac aagaacatgc a 351

<210> 42099  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H10

<400> 42099

atggtcgtgg gcgccgtact tgcggtgctc gatgccggcg gctcgtgagg gccccgaag 60  
gtgtcaccgc tccccaacat caccaccaac tacaacggca cgtggctcac cgctagggcc 120  
acctggtacg gtcagcccaa cggagccggc gtcctgaca acggcggtgc gtgcgggatc 180  
aagaacgtga acctgccacc ctacagccgc atgactgcgt gcggcaacgt ccccatcttc 240  
aaggacggca agggctgagg ctcatgctac gaggtgagat gcaaggaaaa acctgagtgc 300  
tcgggcaatt cagtcacggc gtacatcact gacatgaact acgagcctat cgcttcctac 360  
catttcgact tg 372

<210> 42100  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H11

<400> 42100

gccgaaggcc tcgtgccttc tcttctctcc tggcatggag gaagtagctg tttcgccgat 60

gatcgttgcc gccgtagtgc tggacaacaa tggcgctgac gcggtctcct gcactgccat 120  
ccctagcgta acaataagcc tagaggagaa agaaaatatc aatgggggatg ttcccacgat 180  
cacctcggcc gcaagcaacg aggaggaggc gttgttcagt gtcggagaat ccaccaagga 240  
cgatggccat cgcttgacga tggaatgctc cactcccgtc tccttcagta gcccttcac 300  
tcgcaagaag cgcggggcgt tcagcctctt cagggcgatg ttctgtctct tcggtcggag 360  
cgacgacagc atgaagaaga cagacgaaga caccacgagc cccaagaaga 410

<210> 42101  
<211> 251  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H12

<400> 42101

tggattttta ggttgaaagg caatgggctg ttgatcagtg tggggaggga gtggaaggac 60  
cgagggggca cggcaacgga tgaaaagggg gatggcgctc cctgggtatga ggaaaatatt 120  
tcgcatagaa tcacccgact gagtacaaga cattttgagt tttgacagag aaagctgctt 180  
acatcaaaca tgttattagc tgaattctgt agatgaactc tttttttcga tggaaatagc 240  
tacttcatgt t 251

<210> 42102  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H2

<400> 42102

gcagatccac aacaggacgt tcgcggccta cagctcgcgg ttcgcgttcc cgtcggagga 60  
gagcgggtcc tcctcgccgt tctactactc gttcgacgcc ggccggcatcc acttcgtcat 120  
gcttgcgctc tacgccgact acagcagatc aggtgcgcag tacaagtggc tggaggcgga 180  
cctggagaag gtggacaggt cggtgacgcc atggctgacg gcgggctggc acgcgccttg 240  
gtacaccacc tacaaggctc actacaggga agccgagtgc atgaggggtg agatggagga 300  
gctcctctac gcctacggtg tcgacgtcgt cttaccggc cagtgacagc cgtacgagcg 360

gtcgaaccgg gtgttcaact acacgtgga cgcgtgcggc cccgtgcaca tctcgggtggg 420  
cgacggcggc aaccgcgaga agatggcgac ggcgcacgcg ga 462

<210> 42103  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H3

<400> 42103

caccgacacg ctcaagaaca agttgaactt catgggcttc gtgatcccg actggcaggc 60  
cgtggaccgc atcacgaacc cgtcgcacca gcactactac cactccatca aggagacgat 120  
ccacgccggc atcgacatgg tgatgatccc ctacgactac cgggagttcg tcgccgacct 180  
ggccaagcag gtgaagcagg ggcagatcaa gctggagcgc atcgacgacg ccgtcagccg 240  
gatcctccgg gtcaagttcg ccatgggcct cttcgaggac ccgctcccg acccgcgctt 300  
caccaaggag ctcggcgcgc atgagcaccg ggcgctggcg cgggaggccg ttcgcaagtc 360  
gctcgtgctg ctcaagaaca gcaagaaggg gcaggcgaag ccgatgc 407

<210> 42104  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H4

<400> 42104

cggacgcgtg gggcggcgcc ggcgtgctcg tgatctcaac ccaaggcgtg cctccgctcc 60  
ggtcacccgt cactccacgc aaccatgtcg aggaggaaga ccagggagcc caaggaggag 120  
aacgtcacc ttggaccac tgtccgtgaa ggagagtatg tctttggtgt cgctcacatc 180  
tttgcatcct tcaatgacac cttcattcat atcactgatt tgtctgggag ggaaactctg 240  
gttcggatca ccggtggcat gaaggtgaag gctgaccgtg acgagtcgtc accttacgct 300  
gctatgcttg ctgctcaaga cgtcgcacag cgctgcaagg agcttggcat tactgcactg 360  
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tctgccctca aggcgctggc tcgttccgga atgaaaatcg gac 463

<210> 42105  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G12

<400> 42105

gacccacgac gtacgcggac gcgtgggttc gttatectcc tcgatcttat attcaggtca 60  
 tagctaagca ggtctgtgca ggaggtcgtg gcagacatac gtcgatgagc acctgatgtg 120  
 cgagatcgat ggccaccacc tgacctccgc tgccatagtc ggccacgaca gcgccgtttg 180  
 ggcccagagc accgcattcc cacagttcaa gacagaggag atgaccaaca tcatgaacga 240  
 cttcgactag cccgggttcc ttgccccgac cggcctcttt cttggcccca ccaagttcat 300  
 ggtcatccaa tgcgagcccc gctgctgtca ttccgcggga agaagggatc tggatgcata 360  
 a 361

<210> 42106  
 <211> 465  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-E8

<400> 42106

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 ccaaaatcct gaaacctata taattccgc tccatcaccc gccggacgcc tgatccgagt 180  
 ccctgagtcc tgatagtaca cgacaggcac cgcagcagac cggccggact cggcgccaag 240  
 cgcgatggat ttgtcatccg acgacgtgaa ggcggcgaac atgcggcctg cggttgctgc 300  
 tgccgatggc acgtcgacac ttctgcgggg ttggcgggag ttcattgcgga gcggcgcgcc 360  
 ggcgaggttc ctctattatg aggacggcaa gtggatcgat atcaccggag aggcggtgcc 420  
 gcagctgcgc caggcgttcc aggagaggan ggcgatggcc gatgc 465

<210> 42107  
 <211> 275

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-011-Q1-K1-E9  
  
 <400> 42107  
  
 gcagcgcgct gcccgcgctt tccgacgcag catgtcgcgc gcccgcgctca ggacgggtcaa 60  
 ggacctcgcc gaggaacggg cctcagtgtc cgccgccagc agcaaggtct ctgatgaggc 120  
 ggcgggccgcg gctaccgctg agccctctgc aggtgccaaag accttcagca gcaacgatgc 180  
 ccgcgacggc gccatggaca gcgtgcagga cgagccgcac cagcagtgtc acgatgacta 240  
 tcaccccgag atcgtgccct ataagatcat acacg 275

<210> 42108  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-011-Q1-K1-F1  
  
 <400> 42108

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 ggtgctggcg gcgatggcac tagcatttct ggtaggcggt gcctgggtgtg gtcctnccaa 120  
 ggttcccccg ggtaagaaca tcacagccaa ctatggtagt gattggctag atgccaaggc 180  
 aacatggtat ggcaagccaa catgtgccgg cccggacgac aatgggtggcg gatgtgggta 240  
 caaggacgtg aacaaggccc ctttcaacag catggggcgca tgtggcaacg tcncatctt 300  
 caaggatggt ctaggttgtg gatcctgctt cgagatcaag tgcgacaagc cagcggagtg 360  
 ctctggcaag cccgtggtgg tgtacattac agacatgaac tacgagccca ttgcggcgta 420  
 ccacttcgac ctatcatgca cggcggttcgg tgccat 456

<210> 42109  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-011-Q1-K1-F10  
  
 <400> 42109



acacacacgt tcaaaccgcg agcacacacg tttcactttc acgacgactg cctgacacac 60  
 gggccacgaa catgctggct cgctcctgcg ggcacctact ctcagccccc agctagagcc 120  
 ctatgtctac gagggcgaag aatagaccac ccctgctggc atttttgcca gaggttctta 180  
 ttctgccaaa ctaaagttag ttgatgatga tggcaagtgc ttcttgga tgagttacta 240  
 ctttgagatt agaaaggact ggccaggaac tcaatgatgt gtggaccagc atggctgact 300  
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 aatgattttc attcgtact tcattctaaa tcgcatttaa ttgttt 406

<210> 42110  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F2

<400> 42110

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 ttagcgctc ttctgtgtcg tgcattgtga gaaggcaaag tcaaaggaca acgatgcaaa 120  
 agcgtccggg cccggtgggt ccttcgacat caccaagttg ggcgccttcg gcaatggcaa 180  
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 gcagacgac ctcattccca agggcgactt cctcgtcgga ccaactcaact tcacaggccc 300  
 atgcaagggc gacgtgacca tccaggtgaa tggcaatctg ctggcgacca cggacctaa 360  
 ccagtacaag gatcatggta attggatcga gattctacgc gtggacaacc ttgtcatcac 420  
 cggctaggga aagctcga 438

<210> 42111  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F3

<400> 42111

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aacgatgcac gagacgaaca cgaggcgaag aggccacaaa agagacgatg tcagcgggaag 180  
 aggcgaagag gccacgagac ccacgagacg ccgcagcggc agtagtctgc agcaaggagc 240  
 gcttaagtac gggattgcag cgagggtgcga cagagaaaaga gagaaaacct tgggtttcct 300  
 ggtcagcgag gtgcatttta ttttagaagt actataaatt taaattaggg ttggaaatgg 360  
 atgtttggtg atccgaatta ttcgtattcg tactcactaa aactgcta atggatatcc 420  
 gtatccgtat tcgatttcaa tat 443

<210> 42112  
 <211> 470  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-011-Q1-K1-F5

<400> 42112

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 ggctgccgaa ccctacggcc aggccaagat ttagtagtag ctactataaa tctgcagggt 120  
 cgccagcact ttggcctctc aacgcacgcc ccccgcccga cgtttccgat ctcgtttctc 180  
 tcctcccag tagcgaaatc ttcgtacatt ctgagatgca gatcttcgtg aagaccctcg 240  
 ccggcaagag catcaccctg gaggtggaga gctcggacac ggtcgagAAC gtcaaggcca 300  
 agatccagga caaggagggc atccctccgg accagcagcg cctcatcttc gccggcaagc 360  
 agctggacga cggccgcac ttggccgact acaacatcca gaaggagtcc acgctccacc 420  
 tcgtcctccg ncttcgtggt ggcngcggcc agtgatctgg tctgctgac 470

<210> 42113  
 <211> 469  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F7

<400> 42113

aactcactga atgccctgtc agaggatggc agcctcctga gcatgccgcc atgggttaat 60  
 ccatggcttc tcctggccat gtccgtttct tttgggctgc atttcttgat cctctacgtg 120  
 ctttctctgg ctcaagtgtt tgggattgtg cccctcagtt tgaacgaatg gctcttggtg 180

atagcagtgg ccttaccagt ggtgctgac gatgaggttc tcaaatttgt tgggcgggtgc 240  
 ctgacagctc gtgcccga aaacatcaggg aagaggaagg cagagtagat gctagtgac 300  
 atcgggtatta gaatctgtag cgccacggga atcgatattg gatgtgacac cccattgttt 360  
 ttgagttgct aaggtctctc gatcctttct gagtcttttt agactgggaa tgacagtcca 420  
 ggacaggcaa ggatattcta taggactcat aatcagatcg cattgaaca 469

<210> 42114  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F8

<400> 42114

gaacaagaat cgtcgtgggt tcctcaatat tatttctaaa gaaaatctga aacaagggat 60  
 accttgaat ccctcttgaa gatgtgaagc aatctaaaat ctatgtaaga agataaataa 120  
 cactcaggag tcaagactag acaactagtc accccaaaga attagccttt tttagccgtg 180  
 tacacctgga atctaattcca gattggcaac cacagcatcg gtaacttctt ggggtggtgct 240  
 gctaccgccc agatcctttg ttctgtacgt gccttcagca acgacacgct tcaactgccgt 300  
 ctcgagccgg tccgcaaattg acgggaactg caaatgcctc aacatcatag cagatgacag 360  
 aagcagcgcg acaggggttg ctttcttctg ctccacaagg ttctcattcc caaca 415

<210> 42115  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F9

<400> 42115

caacatgctg cgggctcgcc gccgcctgga cctcctgcag gtgggtgctct tcgccgctgt 60  
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 gacggtggag atgccactgg acgccgacgt cttccgcgtc ccgccgggggt acaatgcccc 180  
 gcagcaggtg cacatcacgc tgggtgacca ggagggcacg gcgatgatcg tgtcgtgggt 240  
 gacggccaat gagctgggca gcagcacctg catgtacagc gaggcgtcgc cggacccgga 300

gaagatggag ctccgggagg agggcaccca caccgctac gactacttca actacacctt 360  
cg 362

<210> 42116  
<211> 466  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-011-Q1-K1-G1

<400> 42116

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gccgtccttg cggcgctcgt cgccggcggg tcgtgcgggc cccgaagggt gccacccggc 120  
cccaacatca ccaccaacta caacggcaag tggctcaccg ctagggccac ctggtacggt 180  
cagcccaacg gtgccggcgc tcctgacaac ggcggtgcgt gcgggatcaa gaacgtgaac 240  
ctgccaccct acagcggcat gacggcgtgc ggcaacgtcc ccatcttcaa ggacggcaag 300  
ggctgcggct catgctacga ggtgagatgc atggaaaaac ctgagtgtc gggcaatcca 360  
gtcacggtgt acatcactga catgaactac ggcctatcg ctccctacca cttegactng 420  
agcgggcagg cccctcgctc cctggcaaag ccctggctca acgaca 466

<210> 42117  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G10

<400> 42117

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gatgcaggag ctttttgagg acttctatga ggacatctat gaggagttgg ggaagtttgg 120  
tgagattgag aatctgaatg tttgtgataa ctttctgac cacatgattg ggaatgtcta 180  
tgtccagttc agggaggaag agcaagcagc cgcagcttac aatgctcttc aggggcgctt 240  
ttactctggc cgccctataa ttgttgagta ttctctgtg accgacttcc gtgaagcaac 300  
ctgtaggcag tttgaggaga acagctgcaa ccgtggtggc tactgttaatt tcatgcatgt 360

gaagcaaatt ggcagggatc tcaggaggaa gctgtatggg cgttctgctt ccatgaggta 420  
ccatgggaga agccgaagcc gaagcccgtc accacaaagg ag 462

<210> 42118  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G11

<400> 42118

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agggcccagt atgggtccaga aatcaaagta aaaaaagcc ctagtgtctt cgcacgcgc 120  
tcccgcacac agaccgacca gccgcagccc gtggcgcacc tgccctgcgcc cgcgcctcc 180  
gtcatccact caacctgcc cctcggccac tgccgcgcgg cgcgcgcgc cctgccgcac 240  
cggccgaatc atccgacggc ccttaagctg aggcggtgtg gcctaagtag caacgcggcg 300  
gtcgcgccgt gtctcgtcca ctttggtccc gacaggctgt ccacgggggc gcgaactgcc 360  
cctcgcgggg tcggtcccga cgggccgtag cagctcacca gagaactagc ctctcgtcgg 420  
gctttcccag gtctgcgcgt 440

<210> 42119  
<211> 471  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E7

<400> 42119

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gagaaccatg gcggcggcgg cagtttacgg cggcttcaaa gggaagcttg gcgtcgagga 120  
tgcccccgag ctgcagctca accgcatccg catcacactc tcatccaaga acgtcaagaa 180  
cttgagaaaa gtttgtgcgg atttggtaaa gggagccaag gacaagcatt tgagggttaa 240  
gggacctgtc cggatcccta ctaaggttct ccacatcacc actcgcaagt ccccttgagg 300  
tgaaggaaca aacacatggg atcggtttga gttccgcatt cacaagaggg tgattgacct 360  
aatcagctcc cctgatgtgg tgaagcagat cacctccatc acaattgagc ccggtgttga 420

ggttgaggtg accattgccg acgtgtaagg acgtgaagtt cagcaatgtc a 471

<210> 42120  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D12

<400> 42120

atacattaga tagtttaggt ttgataatgg atccaaaata tgtagccta tgcattctcg 60  
tattacttgt attgcatgga gatactactt tggcagaaac ttgcagggag tttgctaaat 120  
ggcatccatt ctgcttttagt gcaatgtgca aggcaaattg ttttatagaa ggaaaaagct 180  
ccgatgggtc ctatgcaaag ggatatagat gtgattcaca tggatttcat tctatgtgta 240  
tttgcccttt gtgtaaaagt tagttatctt aagacaagcg gggatatatt ctatgttcat 300  
atccgtcatt taagggtgtg ttcaaataat tttatgggat aataattaac tagtttggtt 360  
acttctagat atatgttata ctacttaaa 389

<210> 42121  
<211> 455  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-011-Q1-K1-D2

<400> 42121

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ccgtccgccc cctcgtttcc cgcgccgtcg ctccgcccac cgcgcgccgg gcgctcgcca 120  
cggcggaggt gcccgcggag gccgtcgagg actccacgtt cgtcgaggcc tggaaaaagg 180  
tcgcccccaa catcgagccc ccagcgacgc ccctctccct catgcagccg cgcgcgccc 240  
cgccagctac catccctacc aagctcaccg tcaacttcgt cctcccctac aagtccgaga 300  
tcgccaacaa ggagggtgac atggtaattg taccagctac aactgggtcag atgggtgttt 360  
tgccaggcca tggtgccaca attgcagagc tcaagcctgg tggttctctca gtacatgaag 420  
gaaacgatgt gagcaagtac tntgtgagca gtggg 455

<210> 42122  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-011-Q1-K1-D4

<400> 42122

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gtggtgggca cgacgaatgc ccctcgcccc caccagattc gtgcaactcg ggcctcatc    120
cgatcggcac cggccgcccc acgcgctaca gacgcgctgc cgcgtcgga ctctggagga    180
cacggcgccg gcttgggtgga ttgtgggagg gagggccttc tcttggattt ctgttgtcga    240
ggacagggtc ttgtattagc tagctattca ctggatgttg gcgatgggga cagaagagtg    300
ggagctctat ccttgttcc acagcggctc acaggtgata gactacaggc cggctctctga    360
agacgaagac ggcgacgacg accagaacgg ggccgacgtg gcagtgtcgc tggacgccgt    420
tctnccagac gatc                                                                434
  
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<210> 42123  
 <211> 469  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D5

<400> 42123

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caaaccatag catcaatcat gtctggtcgt tcgtggacaa taatggcgcc tctcctggcg    60
tcgatgtcgc tcgtcgggct cgcgtgggc tccgaggagg aggaggacgg cggcggcaaa    120
aagaagcccc acgtcaacca cggcaagttt aaggcggagc cgtggacgga cgggcacgcg    180
acgtactacg gcgggcgcga cgggttaact gacaccacgg acggcggcgc gtgaggctac    240
aagggcgagc tggggaaaga ctacggcacc ctgacggcgg ccgtgggccc gtcgctgtac    300
accaacggca ccgggtgcgg cgcgtgctat gagctcaagg gccccagggg caccgtggtg    360
gtgacggcca ccaacgaggc cccgccgccg gtgagcgggc agaagggcga gcacttcgac    420
ctcaccatac cggcgttcc caagatcgcc gaggagaagg ccggcatcg                                                                469
  
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<210> 42124

<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D6

<400> 42124

ctaacgatag caccaatcat gtctggtctt tcttggacaa taatggcgcc tatcctggcg 60  
tggatctgct catcgggctc gccgtgagct ccgaggacga cgaggacggc ggatgcaaaa 120  
agaagcccca cgtcaaccac cgcaagttta acgcggaacc gtggactgac ggtcacgcta 180  
cgtactactg ctggcgcgac ggattaactg acaccactga cgtgcgcgcg tgcggctaca 240  
aggctctagct ggtgaaagac tacgactccc tgacggcgac cgtgggcccc tagctgtaca 300  
ccaacggcac ctgttgcagc gcgtgctatg agctcaaggt ccctaagggc accgaagtag 360  
agacagtcac caa 373

<210> 42125  
<211> 173  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D8

<400> 42125

aaaatggata ctggcagaag aaatatatgg acttcgtagc acgcgtagga gtgatcgagt 60  
ctgttttaat atgctatctc aggtaaaata ataatttatt ggcacagggt tagccattca 120  
ctaacttgta tcaattttgt gaactaaaga acttactatt acatgtggga gcc 173

<210> 42126  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D9

<400> 42126

tccaccacca ccaccaagct caacaacagc cagctcgga aaataatgaa gagccgcagc 60  
atggcatcat cggccgcgct cttggtgcta gccctcgcg tagtgggcggc caccgcccc 120  
caggtagcgg aggcaaagaa gaagagagcg gcggagagcg gcgaggcggc ggaggcgaag 180



aagatccagg acgacttctg ctcgacgctg tgcgagggca agaaggggac ggacctggtc 240  
 gtgtgcaagg agtctctgccc tctctcccag cagtccaacc tgggtgctgta cggcaggatc 300  
 cagtgcaagg gcaagtgcac cgagcagaat ggcacacgg cgccggccat gaaggctctgc 360  
 caggaagagt gcgacaaggc ctacgtggt 389

<210> 42127  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E1

<400> 42127

gtggcatgca gatctttgtg aagacactca ctggcaagac aatcaccctt gaggtggagt 60  
 cttcggatac cattgacaat gtcaaggcca agatccagga caaggagggc atcccaccgg 120  
 accagcagcg cctcatcttc gccggcaagc agctggagga tggccgcacc ctggcggact 180  
 acaacatcca gaaggagagc acccttcacc tgggtgctccg cctcaagggt ggcatgcaga 240  
 tttttgtgaa gacattgact ggcaagacca tcaccttga ggtggagagc tctgacacca 300  
 ttgacaatgt gaaggccaag atccatgaca aggagggcat tccccagac cagcagcgtc 360  
 tgatctttgc tggcaagcag ctggaggatg gtcgcaccct cgccggactac aacatccaga 420  
 aggagagtac cct 433

<210> 42128  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-E10

<400> 42128

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 ttcgccgcct ggatcgtggt catggccatc ttcgtcctca cgctgctgcc ggagaccaag 180  
 ggcgtgtcca tcgacgagat ggtggaccgg gtctggcgcc gccattggtt ctggaagagg 240  
 tgcttcgccg acgactacga cgccggccagg gtctacgaca actgctagtg ctaggcacgc 300

gcgccgncgg ggattagttc ttttgtcatt gtaattagaa atcggcctga ttaattgatt 360  
 tcgttgctat gacatttaca atgatgtcgt ggcaatcaac aggccaaact atatagcata 420  
 tgagaa 426

<210> 42129  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-011-Q1-K1-E11  
 <400> 42129

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 tcagcctact cttaataagt ttgttattaa gttcgggctg cgcaggaagc aactcgcga 120  
 tgtcaacaga tggattcgtc tctgctccgt gtcgcgagca agacacatca ctattaattt 180  
 cactcctgga gtgaaagatc ttttcatggg tccagccaac agcaagtaca ttttccccct 240  
 gaaccttttc agtgggtccag aaggctcctc tacacatgtc agaactcttc atctgggcta 300  
 tgtctgtctg gacacaacct tcgctgattt catgatcttg gcaatcttaa gaagctcact 360  
 ctgcacaa 368

<210> 42130  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-011-Q1-K1-E12  
 <400> 42130

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 ttccatgtga ctgggcactg atatcagatc cggaattgag gctctatgcg cagctctatg 120  
 cataggatga atatgcgttc ctcaaagatt atgctgaatc acacaagaga ctctgtgagc 180  
 ttggcttcac tcattcgcag cacacgacca tccaaatcag atcttgcaac cgtcgtcgtg 240  
 cttgcacaga ttgcctctgg cgtagcagtt gctgcaggca cagttatggc tggctacttg 300  
 tacgaggctt ccaagatggt caagtacagg gcgacattct tctccacata gactctgctt 360  
 tagtaagtat gaagatcgaa taacaggacc atatctgagg atcgaatagc gcatcatata 420

aatgag

426

<210> 42131

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E2

<400> 42131

cggacgcgtg ggcggacgcg tgggccctgt cagaggacgg cagccttgtg agcatgccac 60  
catgggttaa tccgtggctt cttctggcca tgtcggtttc tttcgggctg ctttcttga 120  
tctctacgt gcctttcttc gctcaagtgt ttgggatcgt gccctcagt ttgaacgaat 180  
ggctcttggg ggtggcagt gcttccccg ttgtgctgat cgacgaggtt ctcaaatttg 240  
tggggcggtg cctgacagcg cgtgcccgga aacaatcagg gaagaggaag gcagagtaga 300  
tgctagtgat catcgggtatt tagaatctgt agtgccacgg ggaatcgata ttcaatgtga 360  
cacccccatt gcttttgagc tgctaagggc tctcgatcct ttcagagtgt tttacgttgg 420  
gaatatgacc gtgcatgaca ggctaggata ctctatagaa ttg 463

<210> 42132

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E4

<400> 42132

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tctgaaggct gtgtccaaga gcatcaaagc gatgtgctcg cagacagact acacggacgc 120  
gtgcgagaag agcctcggca aggccgcgaa cgccagctcg tcgtcgccca aggacatcat 180  
ccgcagcgcc gtggagggtga tcggcgacgc gatcggccag gcgttcgacc gcgcggacct 240  
gatcctgagc aacgacccgc tcgtgaaggg cgccgtcgcc gactgcaagg aggtgttcgc 300  
ggacgccaag gacgacctca acagcacgct catgggcgtc gacgacaagg acggcatcgc 360  
caagcagggc taccagctgc gcatctggct cagcgccgtg atcgcgaaaca tggagacgtg 420  
catcgacggg ttccccgatg aagagttca 449

<210> 42133  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-011-Q1-K1-E5  
  
 <400> 42133  
  
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 ggtgccgtcc ggcccccaaca tcaccaccaa ctacaacggc aagtgggtca ccgccagggc 180  
 cacctggtac ggtcagccca acggtgccgg cgctcctgac aacggcggtg cgtgcgggat 240  
 caagaacgtg aacctgccac cctacagcgg catgacggcg tgcggcaacg tccccatctt 300  
 caaggacggc aagggtgtg gctcatgcta cgaggtgaga tgcattgaaa aacctgagtg 360  
 ctggggcaat cctgtcacgg tgttcattac agacatgaac tacgagccta tc 412

<210> 42134  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-011-Q1-K1-E6  
  
 <400> 42134  
  
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 ctcccctggc ggcgtggtgg gcgcagcccc ggcggtgtg ggtgctgccc cggcgtccca 120  
 tggcgcgcta cctgagccc cgtccacggt ggcggcgccc cctagccgcg gccctggcgg 180  
 caggggcatg gcggctccgg ccagtgccg gcgcattggc cagccgctgc ccttgccagc 240  
 cgggcggcca ggccctccgt ggcgcgccgg cagcctgggc gctgccggcc ctagccacgg 300  
 cccggcgccc cggccccggt ggctaccgt ggagcgccgg ctatggcccc gtccttggt 360  
 cgccagcggg cggccccggc gcggtacagg cgcgcggccc ggtcacggat cgggtgcgaca 420  
 cggtcgctct atggcg 436

<210> 42135  
 <211> 471

<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B9

<400> 42135

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tcacgcgcgc ctccggccacc gtggcgctgg ccgcggaggc gccggctccg tctcccacca 180  
gcggctcctc cgcgggtcgca cccgccatcg tcggggccgc cgtggcctac ttcttcgcgt 240  
actacattca ctgagccgcc ggacgaggag ccggagccgg aggggaagaga ccaaggtggg 300  
gggagagact tggctgcgct gcgctgctct gctgctcccg cgcattcccg atgcgtgggc 360  
gtgctctgat tgggcacggc ggtggcagtg gcacaccttc gtcttctttt tgtttgtttt 420  
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<210> 42136  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C1

<400> 42136

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agcccgcaag accacgaagg gcaaattggac aagctcagct acacgaggat ggtggtgaag 180  
gagggcctga ggctgcaccc ggtgttcctt ctcttcttct ctcgtctctg ccgggagacg 240  
tgcgacgtcg gcggcttcga ggtggcccag ggcaccaagg tcacgtctaa cgcgtgggcg 300  
ttggcgagga gccccgagca ttggaagcat ccggaggagt tctggccgga gagattcgcc 360  
gacgacacta gcgtcgccgc ggcggcggac tacgtagggt ctcagtttga gtatatcccg 420  
ttcgggagcg gcaggaggat gtgcccttga aacacctt 458

<210> 42137  
<211> 468  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C10

<400> 42137

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aacaaggaga aagagcggca gctggccaag gagaaggcgt acgcggcgga gaaggtcgtc 120  
cagcaggaga tgctcaagta cgccaaggag aaggggtctgg tgtccccgac caacggcacg 180  
gggtggtaca ggggcatcgc ccgggagttc gtggacgccc acaacgagct ccgcgcgcgc 240  
tacggcgtgc cgcccatgaa gtgggacaac cagctggcgc ggcaggcgcg gcgctgggtcc 300  
aacgccatgc gcaaggactg ccagatcctc cacagcggcc acgagtaagg cgagagcgtg 360  
ttcaggagct acgacgactg gaacgccacc gtcagggaag ccgtttcttg gtggggcaag 420  
gaggaggcca tctacgacaa ggacaaggag aagtgcaagt acggcaag 468

<210> 42138

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C11

<400> 42138

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cgccctcttc ccgcgcgcag cttctctccc gcctccgctc cggggcctcc agtttctctg 120  
cgcggcagta cagcacggag aaggaggcg ataacaccgg tccttcgaag ccgaaagggtg 180  
gtggctcctc cgcgtaagg cacctcaggc caggattcgt ggatccttca tcatggaaac 240  
atattgactc aagggtgtt ggcattaaac cgggtgctat acatacagat gcatgggcgg 300  
tttt 304

<210> 42139

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-C12

<400> 42139

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 gtcaccagag cagatcttga acctgctcca agagacggtg gcagggaaag ccaggaaagg 120  
 cgccgctcct tctcgtttct gtggccggtt ggcccgctga gttccagatc cagttcttac 180  
 cagtagcaac agaattgtga tgagcctgca gtatacgatc caaaccagat agcatattct 240  
 gagtggcact atgaccactg actgaaaccc tgcagcaagt gcaagctatc tgcaattcgt 300  
 gccttcaacc ctcagctttg gagaggcatt catcagctgt aatggctgct tgccgtataa 360  
 aaaaaggatg gttcttgctt gttatattgt gttcagtga tagccttgct ccgtatgtcc 420  
 tncgtatata taaatccttt gcgtgtagta agcggg 456

<210> 42140  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C3

<400> 42140

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 agaagatcgg caccatggct ggaacgacga cgacggtgat gcagatgatg cacgtgcaac 120  
 atgcggcagc attgctgatg tgcttggtg tggtgactgc gtacacgccg gtagtgatgat 180  
 catctgcagt gactactgat ggatgatgca acggatggac catcgtatga cagatatact 240  
 gtgccatcgc atgctacgg 259

<210> 42141  
 <211> 471  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-011-Q1-K1-C4

<400> 42141

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 aaaggctgaa gaatatctcc ctccgaatat gggcttcttc atcaagtttg ttaaggatga 120  
 tggtaggttg ctgtacccat gccctcttg gatacattca gatataatgg acgataacat 180  
 tcttatcgag gggatcataa aactgagttc ttctggtgag agggaaagag tttatgactc 240

acatcgggac aaaataaatg caattcacat cattgatttc agtgatctgt ccattgggga 300  
 tcctatatgt gacataattc cgctgcactt ggatattttc cggngtgata gtgaccttct 360  
 caaggaattt ctacggagct atcaacttcc ccttctgagg ggggaatcaa ccaccgatgt 420  
 ctacagatca gtgcgaaact cgaagttcat canggcata tategcgga t 471

<210> 42142  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C5

<400> 42142

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 ataaataaag atgaagaaag tggcatcatc gtcagccgtt ctcttcgtgc tagccctgac 120  
 gctagtttgt gccccgtga tagcagaggc aaagaagaag agagtcgccg ccgtcgtcgc 180  
 cgaggagaag aaggtgcagg acaacttctg ctcgacgtg tgcgagggca ggaaggggat 240  
 ggacctggcg gtgtgcaagg agtcctgcga cctctcacag cgctccaacc tgggtgctgta 300  
 cggccggatc cagtgcagg gcaagtgcac cgagcagaag ggcatcaccg cgccgcatat 360  
 gaaggtgtgc caagaggcgt gcgacaagga ctacgtggtc a 401

<210> 42143  
 <211> 469  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C6

<400> 42143

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 gcgatgaatc gacgatcagg agcggcatca agcaactgag ccgtgccctc caaatcttcc 120  
 ggtttgtttg ggaggccgcg aatactgact gtcatgccgc caatcacaat ggtaaagatg 180  
 ttgtgggcaa gaagaagaat gaagatgcaa aggggtgtgtt ggagttgcaa ggtcatctct 240  
 ggagtttcgg tgttgaggag aagactctga catacagagg agacgtgttc catatgcac 300  
 agattcagtt accatgaaat ctctttctc caacatatct ttgtgcaaaa tctagccata 360



tagacaaaac atataagagg tgcgatctga actgaaatgc tactcttttc actagcgctt 420  
ctctgaatct gtgcaaaggc gatgcaactg catcctgggt gaaaaagac 469

<210> 42144  
<211> 468  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C7

<400> 42144

ccgaaactga aaccaaaaat aaactgcagg cagaggggga aggagagcgg caggagggtc 60  
attaaataaa tctacttttc tgtttcaggg taggaaatga tgtccgagag tgaagagcat 120  
ggctcgctcc tagacaagat caacgacaag atcaacgaga agatccatga gtataagcac 180  
tcgtcgtcgt cctcctctc ttcggactca gacgatgaca agaagcccaa gaagtctaag 240  
aagaagaagc tttttggaag aaaacatcca ttgcatcatg tcctcggagg aggcaaagcc 300  
gccgaccttg tgctgtggag gaacaaacag gcatctggga gcatcttggg aggggtgacc 360  
gtgatctggt tactgttcga gggcatcggc taccaccttc ttaccttctt ttgccacgca 420  
ctaattgtgt ttctcaccat ctggttcacg tgggtccaatg ctgcgtca 468

<210> 42145  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C8

<400> 42145

ggcggcattg cggaatgggt gcaaggcaga atcgtaaagt tgaggacgct cttccctatt 60  
cttaaaccgc tggactcact tgatgtgatt ggcttccaag agggcacaga taccattttc 120  
attagcatag atatggaggt cttcgcagtc atgctcagat cggagcaggt gaagaaggta 180  
ggcaagacgg gctccaaata tgccatggca ccctatgtga gcttctacac tccagatctt 240  
gcaaagggca gattgctatc accatgaaga tgcagtgatc catccattaa catggccgtg 300  
gcactattga cttcttaagg agatgatgag ttaaagtgtt tttccagttt ggacgggtat 360  
ggaaaaaag caagttacca tgttcattca gaaaagttaa gtttcttacc tgtgcagttt 420

aaggaactgt aagaacagga tatcatcgtc aaaatggcta gtc

463

<210> 42146  
<211> 371  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-011-Q1-K1-C9

<400> 42146

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acgaacgacc aacactccta gctgtctcgc gtacggatcc atcgagctgt gtgtccttct 120  
ggctgctgca cctgatgctc agagtagaca ctggctgctg ctccggaagg aaactgactc 180  
ccccgaccgg cgatcatgct cctggatggc tcgctggccg cctcgaccga aacgctgacg 240  
cagaatgacg actggggctc gtgggtgttg tacactatgt gccttatctt tacttctttc 300  
tgtccgctat catccattac gctctgtgat gtagctagcc gtactgnta ttcattgacat 360  
catgctagag a 371

<210> 42147  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D1

<400> 42147

ataaccaaac cgactatggc tgacattttg acgggaagca tcgacggcgg gacacgtatg 60  
atcgcgctgg cgctgcatgc cggccgtccg gcgacagacc tgagctgcca tggcctttgc 120  
tgccaggcta gcctgggact ccacacgact actgcggact agcctaagtg gtgcacgggt 180  
atccgttgct atctcgggtc taacatacag ttacaaggcg accactctgg acatcccacg 240  
tagtcaacga tgctccatc gcatgagcgt atgaataggt ccatacgggt atgcttggac 300  
actgcgagcg catggcgaat atggtcaacg acataatgca ct 342

<210> 42148  
<211> 331  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D10

<400> 42148

caaatatgta gcttatgtga cagaatgttt ccagggacat acactcttcc ataaggcact 60

taaagaagcc tttgaggtct tctgtaacaa aggtgtctct ggcagttcga gtgccgagtt 120

gttggttacc ttctgcgaca atattctgaa gaaaggttgc agtgaaaagc tcagtgatga 180

agccatcgaa gatgcccttg agaaggtggt gagaatgctt gcatacatca gtgataaaga 240

cctgtttgcc gagttctata ggaagaagct tgcaagaaga ttactttttg acaaaagtgc 300

taatgatgag catgagagaa gtattctgac a 331

<210> 42149

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B8

<400> 42149

ggcagagaga ggccagactg atgggaatgg catcgaagga gcactttgtg cttgttcatg 60

gtgaagggca tggagcctgg tgctggttca agctccgctg gctccttgag ggtgctggct 120

accatgttac atgcattgac ctagccggag gcggcgctga tctactgac cccaacacaa 180

tccggtcggt ccagcagtac gacaagccac tcatagacct catttcaacc ttgccggagg 240

gggagaaggt gattctaate ggacatggtg ctggagggct gagtgtgatt catgcaatgc 300

acgaatttgt tgacagaate agccaagcat tttttgtggc agctacaatg ctaccatttg 360

gatttcaagc tgatgaagat aagaaagatg ggttaccaac tttgcctgag aacgagattg 420

agttgacact ttgtgctgga gcagatgat 449

<210> 42150

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A4

<400> 42150

ataggcgtct togtaactcgc ctacctacgc ggctcatacc tttccccctt ctcccaattc 60  
 ccgcccgtcgc tccatcccgt aacgcgacac catgagggag tgcatttcga tccacatcgg 120  
 ccaggccggt atccaggctg gaaacgcgtg ctgggagctg tactgtcttg agcatggcat 180  
 tcaggctgac gggtcagatgc ccggtgacaa gaccattggg ggaggtgatg atgctttcaa 240  
 caccttcttc agtgagactg gtgctgggaa gcacgtgccc cgtgctgttt ttgttgacct 300  
 tgaaccact gtcacgatg aggtgagaac tggcacctac cgtcagctct ttcacctga 360  
 gcagctcatc agtgggaagg acgatgcagc caacaacttt gaccgtgggc actacaccat 420  
 tggcaaggag a 431

<210> 42151  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-011-Q1-K1-A6  
  
 <400> 42151

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 gctgagtaca ccgtccgtac cctccagagg accgtccctg ctgctgtgcc tgctgttgct 120  
 ttctctcttg gtggacagag cgaggaggag gccaccgcga acctcaatgc catgaacaag 180  
 ctcagcacca agaagccgtg gtcctgtctt ttctccttcg gccgtgccct ccaggcgagc 240  
 accctcaagg cctgggctgg caagggtggag aacttggaaga aggctagagc tgccttcctc 300  
 gccagggtga aggccaactc tgaggctacc ctcggcacct acaagggtga tgctgccgtc 360  
 gacaccgaga gcctncacgt caaggactac aagtactgag ttgcttctct ttgcgtgccc 420  
 gttttg 426

<210> 42152  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-011-Q1-K1-A7  
  
 <400> 42152

actgaagata tgggtcctcg accttttcct gtcaaggagg ttcataaaat agcagtacta 60  
gatattaggt tagctaatagc tgatcgatcat gctgggaata ttctagcgtg caaggagaga 120  
gaaggtggca actacaagct gattccaatt gatcatgggt actgcttgcc agagaagttt 180  
gaagattgta catttgagt gctctactgg cccaagccc gtgagccatt caatgatgaa 240  
accattgaat acatcaaata actcgatgct gaagaagaca tcaagcttct caagatccat 300  
gggtgggagc tgctncacg gtgtgctcgt gtctgcgca tcagcacaat gcttttgaag 360  
aaaggtgcat ctggtggctt cacgcnctat gacatanggc gcatactatg cagggaaact 420  
gtgaataggg actctga 437

<210> 42153  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-011-Q1-K1-A8

<400> 42153

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gtcgatgcgg atggcaatgg gaccatcgac ttcccgaggt tcctgaacct gatggcgagg 120  
aagatgaagg acacggactc agaggaggag ctcaaggagg ccttccgctt cttcgacaag 180  
gaccagaacg gtttcatctc ggctgccgag ctccgccatg tcatgaccaa ccttggcgag 240  
aagctgaccg acgaggaggt cgacgagatg atccgtgagg ccgacgtcga cggcgacggc 300  
cagatcaact acgaggagtt cgtcaaggtt atgatggcca agtgaggagc ggtccccgtg 360  
aaataagtat ctatggattg aagcgaatta tcaggcacac aagctgtact ttgtcatgtn 420  
cctttgag 428

<210> 42154  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A9

<400> 42154

cgcatctcgt caacctcacc gctaaccagg agtactgggc ggagcgcgcg gaggcggcgc 60

acgcgtacaa ccgcgcggcg taccagaccg accccgtggc cgtcgtgcag cgcttcaacg 120  
acggcgtgca cagggcgacg gcgacgcggt cgcggtccct ggcgcacagg ggcgggtgcc 180  
cctgcacggc gtccaacccc ttggaccact gctggagggtg gccggcacga ctgctcccgt 240  
gagctcaagt gactgtgcag gatccccatc gtcttacgtc acatgaccac cggcggggtg 300  
accggcatgt tcta 314

<210> 42155  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-011-Q1-K1-B10

<400> 42155

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aacggcatct tccacagggg caccgagacc cccctcaagc tcgccgagta cttcaacgtc 120  
accgacgggg tggttcagcta caaccagatg ggcgacgtgc cccccgtcgt taacggggcca 180  
ctccatgtca tccccaacgt catcaccgcc gagttccgga ccttcacgga gatcgtcttc 240  
gagaaccccg agaagagcat agactccctc cacctcgacg gctacgcctt cttcggcgtc 300  
gggatggggc ctgngacgtg gtcgccggag atgaggaaga cgtacaacct actggacacg 360  
gtgagccggc acacgatcca ggtgtaccg tggtcatgga cggcgatcat gctgacattc 420  
gacaacgc 428

<210> 42156  
<211> 450  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-011-Q1-K1-B11

<400> 42156

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aaggcggcgg cagcgctgtg gggagatgtc aatcctgtgg gagaagagcg cgggttggcg 120  
atggctggtt cggcggacgc gtgactcgaa gcccttcttt ttcacgttcg cggcgtgtg 180

cggcgctcgtc cccggcgtaa tccgctacgg cgtgatgcag ctcaccgggt cccgcaacga 240  
 gcagctcgag gcccaccttc gctccacggc ccgtcccag accacgatga tggggcaagt 300  
 gaacagggag aggtggcgg agtttctcgg cgagctgcaa cggaaagagg acacgaacga 360  
 caggtacgtg gccgcgctga ggggggagac cctgaccagg aagcgctacg agcgcatnca 420  
 gcccgtcct gccgncaacg cgcaagcgag 450

<210> 42157  
 <211> 466  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B4

<400> 42157

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 cgcgcgctga cgggtgccga gctgacgcag cagatgtggg atgccaaaga catgatgtgc 120  
 gcggcggacc cgcgccacgg gcggtacctg acagcgctcc ccatgttcgg gggcaagatg 180  
 agcaccaagg aggtggacga gcagatgac aacgtgcaga acaagaactc ctctacttc 240  
 gtggagtgga tccccaaaca cgtcaagtcc agcgtgtgcg acatcccggc cgtcgggctg 300  
 cccatggcct ccaccttcgt gggcaactcc acctccatcc aggagatgtt ccgccgcgtg 360  
 agcgagcagt tcacggccat gttccggcgc aaggctttct tgcactggta caccagcgag 420  
 ggcattggacg agatggagtt cacagaggcc gagagcaaca tgaacg 466

<210> 42158  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B5

<400> 42158

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 ctaaaaaaaaa aaaaaaaaaa tatagatggg taaataaata taaaaaaaaa atactaaaaa 120  
 aacaaaaaaaa aaaggggcgt ccgttctagt ggctccatgc tttcttcccc tttcttgcaa 180  
 cttcttatct cttctttggg gccacttaat ttcatttctc tgtccttctt tttaaacgt 240

tgtgctggt aatccccctgg tgttccccaa ctttttcgcc ttgcatcaact tcccttttttc 300  
 tctgttggtc gtattttcctt atgtgectcc ccttttcgcc ctctctaact tttgccccagc 360  
 ctgattggct tttgtgcccc tctttgttcc gctctttttt ccccttcggt tttg 414

<210> 42159  
 <211> 466  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B6

<400> 42159

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 cagactcgag cgctccaaag cgagccaccg ccgatctgct cctccctctt gaccctcctc 120  
 cgtgcgctgc gcaggcatga ggcgcctcct cgtcggcgcc ctcgctcctt gtatcgccgc 180  
 ggtgggtggag tccaagccgc ctctcgactc tctgggcata ccccgcaag atgaggcgta 240  
 ctacataggc ggcgtgatca aatgcaggga cggatcgggc aggttttcca gggaccagct 300  
 caacgacgac ttctgcgact gccccgacgg caccgacgag cccgggacat ctgcatgccc 360  
 tgaggcgaaa ttctactgca agaatgcagg ccacactcca gtcacgatct tctcgtcacg 420  
 agtgaatgac ggcatttgtg attgctgtga tgggagtgat gaatat 466

<210> 42160  
 <211> 471  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B7

<400> 42160

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 gtattgggaa cttttggata tcatgcacct gagtatgcta tgactggcca gctgacacaa 120  
 aaaagcgatg tctacagctt tggcgtggtc cttttggaac ttttgactgg aaggaaacca 180  
 gtagatcaca caatgcctcg aggacaacaa agtttagtca catgggctac tccaagggtg 240  
 agtgaagaca aggtgaagca atgtgtagat ccaggttga agggagaata tcttccaaag 300  
 ggagtcgcta agcttgctgc agtggcagca ctgtgtgtgc aatacgaagc agagttcagg 360



cccaacatga gcattgttgt gaaggcgctt tcgcctctcc ttcaacaaag acctgcacca 420  
ggcacgcgat agccagcccc gcaacctgtg agctgaattc agtcacgtgt g 471

<210> 42161  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-H11

<400> 42161

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cgaccagtgc cagcccggtg cgacactgcc tgcgcccgcac gcctacgtca tccactcaac 120  
ctcgcccctc agccactgcc gcgcggcgcc cgtccatctg ccgcacccgc cgaattattc 180  
tacggccctt aagctgaagc ggtgtggcct aagtagcagc gcggcggtcg tcccatgtct 240  
cgttcacttt ggccccgaca ggctgtccac ggtagcgga actgccc 287

<210> 42162  
<211> 402  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-010-Q1-K1-H12

<400> 42162

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agagtgggtg cctaaactga aagctctacc agaaggcctg aagcatgtag cgctgtgtga 120  
acttcatgtg gaggggtgcac atagcctaac tgaaatcaag gacctgcaa aactatctga 180  
cgagctccat ctcaaagata ataaggtgct acagaggatc tccaacctgc ccatgcttcg 240  
ttccctcatt atcgatgact gctcaaagtt gaagcatgtg gcaggtcttg atgcgctgca 300  
gcacctcaaa cttgtctttc ctccgtncac cgagacattt tatttcgaag agctagtaaa 360  
ttntctggag cgttgccctc ccacggtggc tgaagctact ga 402

<210> 42163  
<211> 428  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-H3

<400> 42163

caacctgttc catttccagt aaggctctgtc caattgggta ctntgttttc tagtctgggt 60  
tcagaaggat ctgttctaca tccgagagat gttgatatcc atgtccgcac aagtgggtcc 120  
gtgcctggag ccagtactaa cccaagtgat tcagctgggtg cgcaagcgca tcaaaatgtg 180  
aataggccag gagatgcttc gcatgcaaatt attggtgaag cgttttcagg ggttgcaggt 240  
ggcactcctt tttcagttga gtccggagtt agactattgc cacttagaac agtgggttgc 300  
atgcctgctg gcatcagtcg tgcctcatca gggctgtcta gtggtgggct tgggtattatc 360  
tatccatttc tcaactagggt tcgacaaagg gcaaacacta atggtaataa tgaaaagaat 420  
ggtcaatc 428

<210> 42164

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-H5

<400> 42164

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caggggcagg gtctccggtg tttgtgttcc agaactctgta gcaaattggct gacggcgagg 120  
acatccagcc ccttgtttgt gacaatggaa ctggcatggt caaggctggt tttgctggtg 180  
acgatgcgcc aagggtctgtt ttcccaagca ttgttgacg ccacagtcac actggcgtga 240  
tggttggcat ggcgcagaac gatgcgtatg ttggcgatga ggctcagtc aagaggggta 300  
tcctgacttt gaagtacccg atcgaacatg gcattgtcaa caactgggat gatatggaga 360  
acatctggca ccacaccttc tataacgaac tccgtgttgc gctgaagag caccctgtgc 420  
tgctgaccga atccccactc aac 443

<210> 42165

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-010-Q1-K1-H7

<400> 42165

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tgatgaagca ctaactgggt tgaagacttc attcgccttc aaggttcccg atcacaagtc 120  
tggaagcctt gatctgcaat atgcgcacaa tcgtttttca ttgaactcga ccattgggtt 180  
gacatcagca cctttgggtg aactggctgc aactgtcggc acaagtgaac ttagcattgg 240  
tgctgaggtt gggtttgaca gtacttcagc tgctgttact aagtacaact cangaattgg 300  
atacaacaag tccgatttct cagcttcctt actactggct gataaagggg agactttgaa 360  
ggcatcttac gttcatttgt tcaatccgac caatggagct acagttgcag ccgaggtaac 420  
acacaagctg aagaccagag agaactatct cacagttggg agc 463

<210> 42166  
<211> 500  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-H8

<400> 42166

accggaattg aaggggccga cccacgccac gcgtgcgcta gactgccgga ggagggggag 60  
acggggaaac cgatctcaac gaggtcttta cctcgcaggt gcgccgcctt gccatggaga 120  
tccggcaact tgctaattca cgaccaataa ctgttctcaa tggaggttct ggacaatcag 180  
gagtatcagg cctgatagta cctgcagcaa ctgttgagc actaggttat gggttatatgt 240  
ggtggaaagg gatctcggtc tcagacctaa tgtatgtcac caagcgcaac atggcaaattg 300  
ctgtttcaag catgactaaa catttgagc aagtgcaaag ttctcttgct gctgctaaaa 360  
ggcatttgac acagcgcatt gaaaagttgg acgataaatt ggatcagcag aaggctctat 420  
ctggacaaat aagagatgat gtcactgatg cacgtctgaa gcttgagaat attggttcag 480  
aatcaagaa catcaaaaga 500

<210> 42167  
<211> 445  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A1

<400> 42167

gccattaacg tcaacgattc cgtcaccaag agcaagtttg acaacctgta tggttgccgc 60

cactcgctcc ctgatgggtct gatgagggcc actgacgtta tgatcgccgg taaggttgct 120

gtgggtctgcg gatacgggtga tgtcggcaag ggttgtgctg ctgccctcaa gcaggctggc 180

gcccgtgtca ttgtgaccga gatcgacccc atctgtgccc tccaggctct gatggagggt 240

cttcagggtcc ttcccttgga ggacgttgtc tctgaagctg acatcttcgt gaccaccact 300

ggcaacaagg atatcatcat ggttgaccac atgaggaaga tgaagaacaa tgccattgtc 360

tgcaacattg gccactttga caatgaaatt gatatgctcg gccttgagac ctaccctggc 420

gtcaagcgca tcaccatcaa gcccc 445

<210> 42168

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-A10

<400> 42168

acccgggtca tcaaggagaa gagcagcacc acggccgtga tccgctacaa gggctccagc 60

gccccgccgc cggccaagct gccggagggc cccagcgggt gggcgtggtc catcaaccag 120

tgcaggctct tccgctggaa cctgacggcc agcgcggcgc ggcccaaccc gcaggggtcg 180

taccactacg gccagatcaa catcaccgc accatcaagc tcgccatggg ccgcggcaag 240

gtcgacggca aggagaggtt cgccttcaac ggcgtgtcgc acgtggaccc ggaaaccctc 300

gtcaagctcg ccgagtactt caacgccagc gacggcgtgt tcaagtacaa cctcatcggt 360

gacgttgccg ccttcaacac ggnccccacc aagatggcac ccaacgtcat cagcggcgag 420

ttccgcacgt tcatcgaggt ggtcttcgag aaccccgaga agagcatcga 470

<210> 42169

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A11

<400> 42169

ctacgaggat atttgttgct cgaattccac agtcagtgga cgagtcgatg tttcgtaggc 60  
atdddgaagc ttttggagaa attcttgatc tttacatgcc aaaggaacat ggttcaaagg 120  
ggcatcgtgg aattgggttt atcacgtttc agagtgcaga gtctgtggac agcatcatgc 180  
aagagtcaca tgagcttgat ggcacaacag tagttgttga tcgcgcgact ccgaaggagg 240  
aagatgtaag ataccccccg agtagaccat ctcagggtgg ctatggtgca tataacgcat 300  
acatttcagc tgctaccagg tatgcaactt tgggtgcacc aacactgtat gatcatcctg 360  
gatcagccta tggaagaggg tactatggat cctctcaagc agtgggcaag aagatatttg 420  
ttggtagact tccacaagaa gcaaacacgg atgacctaag acattacttt gg 472

<210> 42170

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A12

<400> 42170

cccccaaatc ccgaatccct ctgcaatttc tatttaatgt tctgtttctt cccctccgat 60  
ccgatgtccc caactgcgct cccgtcggcg atcaaacacc ggatcgcggc actcgcggcc 120  
gttgagcgat ggatcgtcc tagactagat caagcgcctt gccgtcagca ccatgaggaa 180  
gaagctggac acgccgtttc ccgtcctcg gattaaaaag atcatgcaaa cagatgaaga 240  
cgtcggctag attgctcaag ctgtatctgt gctagcgtcc aaagcattgg agctat 296

<210> 42171

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F8

<400> 42171

caatgttcca gtgatgccga ctccgctttt tgccaatgct ccagccgaga aaggtggcaa 60  
aaacttcagc attgatttca tgatgggccg tgtttcagct gctgggttca agactgcagc 120

tgcttccatt gaacgagtga agctgcttat tcagaatctc gatgagatga tctcatctcg 180  
 gatgggctct cagacccgca caggggtatt gctgatcgct tcaaacgtac catcaaggat 240  
 gaggggtttct ctcccttggg gaggggtaac actgctaata ttattcgta ctccctact 300  
 caggctttga actttgcgtt taaggactac ttcaagaggc tgttcaactt caaagaagga 360  
 cagggatggt tactggaagt ggtttgctgg caacctggcc tctggtggtg ctgctggtgc 420  
 ttctcttttg tttttgtgta ctccctggat tatg 454

<210> 42172  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F9

<400> 42172

acgcgtccgc cgaacggagg agagagggcc tcgccggcga ccttcgctcc ggccttgatg 60  
 tgggtgcccc ggtgctgggt gtgcagtgcc gagcgtaac cgagaaggte gcgctctcgg 120  
 cgatcaagtc tggaggacga gctgctcaga acgcgtcggc tgcattgaaa gacgtcatgg 180  
 gctcctacac aaatgcaatc cggcgctcgtc tacgtcttga ccaacgcgtg aggttacgag 240  
 ccacctgaag aacaggttgg tagctggaat ctcaagtgt acgcaagttg tgcccttgat 300  
 cactatTTTT taccactca tgtgctaatt aatcataatg atctgcatat gttaattttg 360  
 a 361

<210> 42173  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G1

<400> 42173

cggacgcgtg ggtgaggagt gtactcatga tggatccact aggaccttgt cataaccaga 60  
 tgtgcaagct tcaatatcaa ctgatggaca aaagacatca gatttacact gtccaactaa 120  
 tcctgaatgt ttaccatagt atatcagttc aggttctgaa gctgccagta ggtgctggtg 180  
 accatttgca tttgctttcc tagtcttctg ccgaccttc catgatctcc ttgaagtcca 240

ttctgggaat atgcttccaa tttcttcaac gccaatgac ccttccattc ttgcatcct 300  
 ggagttcaca ggtaaaaggg aaaacaaagt tccatcagca acaaagagcc gagtacggtc 360  
 accaagagaa tactttctgca acattgtacg acaggccgca aggcggtgct ttgcaacatc 420  
 aacaccagtc agag 434

<210> 42174  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G12

<400> 42174

cggacgcgtg ggttcgttat cctcctcgat ctttaattaca ggtcatagct aagcaggctc 60  
 gagaggatgt cgtggcagac atacgtcgat gagcacctga tgtgcgagat cgagggccac 120  
 cacctgacct ccgctgccat agtcggccac gacggcgccg tttgggcccga gagcaccgca 180  
 ttcccacagt tcaagacaga ggagatgacc aacatcatga aggacttcga cgagcccggg 240  
 ttcccttgccc cgaccggcct cttcctcggc cccaccaagt acatgggtcat ccaaggcgag 300  
 cccggcgctg tcatccgagg gaagaaggga tctggaggca taactgtgaa gaagacaggg 360  
 caagcgatgg tg 372

<210> 42175  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-G2

<400> 42175

gattgcggca gcaccgtcga ccacgagccc gtcgaaaggc tctcgcgct gccgttccaa 60  
 ggtgcactgc cggcattgct caatctcccg tgggtcggaa gtccaccgt gcgccaattg 120  
 gtctnctctt tcgttggcag actgagtggc atccaatcct gaatcaatga ngggctggcg 180  
 ttgctcgtg ttatcgctac atgttctttc atgcctgggt agtggcggtt cttctggctg 240  
 aacaagctct tatgtgcgca cagagtttcc atctacagat atacctctag aaagtgaatg 300

gtttgctatt ccaaagggat acaatgctcc acagcaggtt catatcactc aaggtgatta 360  
 tgatggaaag gcagttatag tatcttgggt acctccagaa aaacctgggc caagtgaagt 420  
 atttatg 427

<210> 42176  
 <211> 173  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G3

<400> 42176

ctctgctgag ggcaacgggt tcctctgcaa gtctatgggg ttogtgaaca ccgcgggggc 60  
 ggagggggcgc caagcggggg cgatgcacct gcaaggcgac aagtcgggtg tctacaactt 120  
 gccgttcgag gggtagcaag acacgctgga cgtgcacgcc aaacggcagt tct 173

<210> 42177  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G4

<400> 42177

gattctgccc gtggaaactt catttatttg agcttgaaga ggagctgaag actgacctc 60  
 tgaccaagta tgtgctgtat caggatgaga ggagcaagag ttggcgagtc caagcagtcg 120  
 cagttgctcc tgacaggttc gagagccgaa aggtctctgcc agagaagtgg aggggcatga 180  
 gagacgacga actttcagca gaaaccggca tccctggctg tgtgtttgtc cacatgagtg 240  
 gcttcattgg gggcaacaag acctacgagg gagcattgga aatggcgaga gctgctctga 300  
 aattctgatt caaccaaagc atatttatta cccatgttac cattatatca gtaagcacat 360  
 taagaacaca agatgcagtt gcgctttctt caatgttatc gtggactcca gccgtgggta 420  
 actgggactg attcttgac tgatcttct 449

<210> 42178  
 <211> 465  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3075-010-Q1-K1-G5

<400> 42178

eggacgcgtg ggcggaacgc tgggcccggtg cgaagtggcc atggttgccg cagttgaaac 60  
acttcctgat cgacgacttt ttcttttgtc gagccttcca ctcggcctcc gtgagaagga 120  
gctggttgtc gcgcggttcg ccgccagtac gagtgcgcgc cggggaacgc tcgtcgaacg 180  
ccttcagtct gccgagcgcc tctcgaacg ccatcgcttc gacatcgag aactgctcga 240  
tgcccgcgac ggccggaaga gccgatctgg aacgatgtcg aggagcttct tcaccatggc 300  
agcgtcgtcg agcgtcacgc caagcccgcc gtaacgcgcc gtcataccgc tgattttgtc 360  
ggcgtagtcg tccaatgcct cccgctctc catttacagc ttgtagaact cccccttgag 420  
cgtggtgagg cgcgtcgtct tgacccgatt cgccccgaca aaacg 465

<210> 42179

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G6

<400> 42179

cgtacgcctg gtcccacgcg tgcgccattg ctttgtgtcc gtcattgcg tacaccgagc 60  
agggactggt caaggactgc gacatgtgca gagcgtgaca ctctggctca tgcataatca 120  
cctacaactg cgccaatgtg tgcccaggac aaggcctctt ggccggaacg ctcagcaaac 180  
gactgcgtcg ttgcatgcgc atcttgcaac gctaaacaat gaacatcgat aactcgtatg 240  
catccacaac ctattcaaga tcacatctat tacgacgtcc atatgcatga cgaccatcac 300  
atatgtactg atcaactgcga tgtgtattct gatgactgcc atcgttctgg tgaatgtgtg 360  
ctcaaggtcc atcaatgcct tcatgtacta catttacagc tgaataacct actacttaag 420  
cttgccgaca tgcatgaatt atacccta atgactcaac 459

<210> 42180

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G7

<400> 42180

gcctaccata aaaagagaat ctttcaaaga tggcgtccaa gaagatggtc ctgcccgtgg 60

cggcgactgc tgctagtcac gctcgactg caggtcgccc ctctgcat cgccatggac 120

tgcaaggccg ggtgtgccga gatcaagaac tccccactcg gcataagcat cgaggagtgt 180

ctgaagaggt gcgaggggat cgccactgag cagggaccta gggaccctta caaggataac 240

aaacttgata tcccataaac acttatgact tgctgatata tttgtgccta tccaatcatt 300

tgtgatagat caatgcatct ttgtgttaaa aatagataga tcaatacatc tgtatatatg 360

ctcactccgt tcttttttat ttgtcggcgt ttagttcaga aatgaactag cggacgacaa 420

atattagaga acggaggtag tactatgcaa gcctacccat gaaa 464

<210> 42181

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G8

<400> 42181

gcgttttttag ggggtggccta ctacaatcat gtcaagctgc aggcgctcaa ggctaaggag 60

gcccagaaga aagccgcaca ggctgatgag gaggttggat cgctcttgca ggagcgcgat 120

ggacacggtg atcataagag cgacaatcag gcttagactg tcagatctga tcttggcctt 180

cccatattgg ggatctgatg caaggtgcaa agactagagt ttgggtctacg gttgctttca 240

aggaggtgga tgacggtttc ttgcacttct ttaactttgt gtctggagag aaaatcagag 300

gtattaacgt ttaggaaata tgcacctgct tgggtggagag ctttgctttg ttattttaga 360

cactttgttc tacagaaagg cagccatgcc ttactactat ctcaactgcc cattgcctag 420

atttatttgt cctgctagta gattaggtac taaaaatgta ctgctgc 467

<210> 42182

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-H1

<400> 42182

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gacgagtcct tccgcagcac cgcaacttcc tctttctcca agtactccgt cgcggaacagc 120  
tccatggacc tgggcagctg cccgttctcc gaggtcgagg tgggcggngg aagtctgcga 180  
gaaggtgacg agtcggagaa ggagaggcca ctggttctgc gcaacaaggc gccgaggtgg 240  
cacgagcagc tgcagtgtgt gtgcctcaac tttcgcgggc gcgtcacctg ggcctcggtc 300  
aagaacttnc agctgatagc tctgcaaag acgcagccgc agccgcaggc ctccggcccc 360  
ccgccggcgn cgnccgncnc gtcgtcgtcg tcgtaccatg acccggtgat cctgcagttc 420  
ggcaaggtcg ggagggacat gttcaccatg gactaccg 458

<210> 42183  
<211> 455  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-010-Q1-K1-F7  
<400> 42183

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tgaagacgtt cgaccctggg ccggtcttct tccgccggga gtggaagcgc aactggccct 120  
tcctcacggg gttcgccatc accggcttca tcatcaccaa gatgacggcc aatttcaccg 180  
aggaggacct caagaactcc aagttcgtcc aggaacacaa gaagcgctga ccaaccgggt 240  
ggagtcgtcc gaatcgctg cgcatgaaaa attagccctc tttttcttgt cttttttttt 300  
tatctagatg cgtgcactct attgtaataa tgtaataaga ggcaattgga ttgatccaac 360  
agcaaccggc ttctgatttt gatccgcttc gctgacatat gcctgcagca aacgaatatg 420  
tgccttnttt tttcttgatg ttggattgca tctaa 455

<210> 42184  
<211> 464  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-010-Q1-K1-E3  
<400> 42184

cggacgcgtg ggtgaagcaa agctgaactg catgtcatga cagacattag tgggtgaaga 60  
 gtctgtcat cttaaagctg tactggacaa cccgcagttc cagcttgacc cattcgctgc 120  
 gatccatcag cacctgctgg caacgcagcc gcctgcagct gcaaagaagg gacgacgcag 180  
 cgggaagcag gggaagggtt ccaaggacaa gaaaagccag gaggaagaag ggcacatcgt 240  
 caatctctca ggcaatggat atctgattgt gtcccttcag tactagtaac ttggtccgat 300  
 gtcgactgcc cgtgttccac tagagggagc tcatcgaagt tcgatatcga tggttggcat 360  
 agtttgagta ccagtagagg tagtactgta ccagccctcg cttttggcag cctgttgatt 420  
 gatgtttgca gaatcgggtg catcaacatt tgggtgtact ttgg 464

<210> 42185

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E4

<400> 42185

gtcgtggctc tcttcacgc tcggcggcac cttcacctgc gaggacgcct gcaaggacct 60  
 gcccaagacc agcgacaagg acgacgtcgt caacttcagc ctgcacttcg agaagctgca 120  
 gcgcgtcacg ctgcacctca tcaccgaggc gtccggcacc atgtccgcag gcatcgccct 180  
 gccaccctcc aacgcgggag cgccctccta cggcgcggcg gcgccttcg ggggctccgc 240  
 cgatgcccc gccgggcct ccgagggccc tgcgagcgcc agcggcccg ctggtgacga 300  
 cgcgccggcg tccggtgctg gtgccagcgc gtcggtgct gatg 344

<210> 42186

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E5

<400> 42186

cgaataataa cctagctctg cacaccgtcc agccaccagt ggcagcagga gcaggggtcg 60  
 gaacaagatg gtggtgacgg cgcccgagc gcgcggaggag gctgtgcggc ggtgggtgga 120  
 cgccgcggga ggacgcctcg tcctcgacgg cgggctggcc acggagctcg aggccaacgg 180

cgccgacctc aacgacccgc tctggagcgc taagtgcctc ctctcctccc cgcacctcat 240  
 ccgcaaggtc cacatggact atctggaagc tggcgcaaac attataatca cagcatcgta 300  
 tcaggccact attcaagggc ttgaatcaaa ggggtttttca aaagaacaga gtgaaaactt 360  
 actaacaaaag agtgctcgaga ttgcactgga agctcgtgag atgttcttga aggaacatct 420  
 ggagaagtcc actcctatac agcacccggc tctgg 455

<210> 42187  
 <211> 462  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E6

<400> 42187

cccactcgtg cgcttacaca gactgtgagt acatcacgga gatcgcggtt gcctgttgca 60  
 aggcatgac ataatcatga catcatattg agatgcatca aataaaatct aggatatatg 120  
 gatggcaaac cagctgcagc atgtatcatt tacaaaatgtc tattgcactg acgtgctttt 180  
 gaatcagagc gaactgctat ttttgatcac gagattgatg ccatacatga tgtcctaattg 240  
 cagaacgaag ctactgatat attacctgat tgggcgtcca atacctctgc atcgctatgc 300  
 ctgggtccata gaaatgtgag atcaaatgga tcattcaacta ccgcgcttcg tcgttatgct 360  
 ggagctctag ggaacatagc acaaacattg acgactactt caaagttaat aggccgcagt 420  
 gatactatac cacatgttga tgcacgggtat ccagtcatac ta 462

<210> 42188  
 <211> 459  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E7

<400> 42188

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggcg gaccaggcta accaaccac 60  
 tggccttcat aagctcgggtg gccagttcca cctgcgctcg atcatctctg aaggtgtacg 120  
 ggcccgtaac atatgcccac ctgtctcatc ttatgaaagg agatttgcca caaggaacta 180  
 catgaccagc agcctttggg gcccttcaat gtctgttagc ggtggcatca atgtcccagt 240

gatgcagacc ccgctctgtg ctaatgctcc tgctgagaaa ggaggcaaga acttcatgat 300  
 tgatttcatg atgggcgggtg tttcagctgc tgtttcaaag actgctgctg ctcccatcga 360  
 gcgtgtgaag ctgcttattc agaaccaaga tgagatgatt aagtctggta ggctatcaga 420  
 gccgtacaag ggtatggttg actgcttcaa acgtaccat 459

<210> 42189

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F10

<400> 42189

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 cgcgccatgg ccatgctggc togetccgcc gcgcacctct tcttcttct tctctctgctc 120  
 tccaccgcgc ccgccgtgcg gaccatcccc gacgaagccc gcggccccgg aaacaacatc 180  
 cacgaggcgt gcagcaagac gctgttcccc aagggtgtgcc tgcacgcgct caaggacaac 240  
 cccgagtgcc aggcgggggc ggtcacgccg cgccggctgg ccgagctgct cgtgtacgtg 300  
 tcggccgacg tgggcatgac cgtggccgcg ttccgcgacc acgagctcaa ctccatcaaa 360  
 gacgacgtcc t 371

<210> 42190

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F11

<400> 42190

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 cagcggcagg gtctccggtg tttttgttcc agaattctga gcacatggct gacggcgagg 120  
 acatccagcc ccttgtttgt gacaatggaa ctggcatggt caaggctggt tttgctggtg 180  
 acgatgcgcc aagggtgtt tccccaaagca ttgttgacg ccacacgtcac actggcgtga 240  
 tggttgcat ggggcagaag gatgcgtatg ttggcgatga ggctcagtcc aagaggggta 300  
 tcttgacttt gaagtaccgc atcgaacatg gcattgtcaa caactgggat gatatg 356

<210> 42191  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F12

<400> 42191

ccttcacgt ctccaacaac atcgtgtcag gcctcaagta caccaacact gtctggaaaa 60  
cgggagtcga agtggagacc cagaagatga tgctggggac gttcagcccc cagctagagc 120  
cctatgtcta cgagggcgaa gaagagacca ccctgctgg catttttgcg agaggttctt 180  
attctgccaa actaaagttt gttgatgatg atggcaagtg cttactggag atgagttact 240  
actttgagat tagaaaggag tggccaggaa ctcaatgatg tgtggaccag catggctgac 300  
tcgtcggagt atgtagagc tcatagctaa gccaaagcaca agatgtggac tcatcttcaa 360  
gaatgatttt cattcgtac ttcattctta aatcgcatth aaatt 405

<210> 42192  
<211> 462  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-010-Q1-K1-F2

<400> 42192

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aagaagattt gcaggcaagt ccggtatgag tcgcgcaaag ttcgtgctga tggcaggctc 120  
aagatcaagg ggcgttttgc aaaggcaaac cagacatgaa cctaaatctg cagttctgca 180  
ctatcctaag catctttcct caagaaatat gctaagtatc ttccaacacg aagaagaaaa 240  
ctggtcaggg gcgatgataa tgcaaaaatg tgccagaatt ttgtttgcct tcagttcaat 300  
agctgataac catagctcca tatacagntg aattgaatga cgtgtgtata tattgctgtc 360  
atgtgactag tagctacatt gctttgagag atcaaaacct gtatatgcac ctacacatgt 420  
gattttgccg tgacggacat aataatagaa ccaactgcgtt tg 462

<210> 42193  
<211> 153

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-F3  
  
 <400> 42193  
  
 aggtgaacca gcagcctaca ataaaagcca gcttatttgc tttaaagcga gagacctcag 60  
 acgtgaggcg agccgaccgc cgacgtacca ccgcgccaac gtgcgagaaa gatggagatg 120  
 atcaagagga tcctcatcg cgtgctctc gta 153

<210> 42194  
 <211> 472  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-010-Q1-K1-F4  
  
 <400> 42194

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 caaaatatgt ggtgaaggaa atactaaagg tgtttttggt aaagagaatg atgttgctaa 120  
 atttacaata tgcaccatag aggatcccag aacattgaac aagacgttgt atctgagacc 180  
 tccaggaaat gtcttctcaa tgaatgaatt ggctgacctc tgggagtcaa aactcaagaa 240  
 atccctgaaa aggttatatg caacagaaga gcaacttctt aaagaaatcc atgatgctcc 300  
 attntccttg aagatggatt taatctttat atattcagcg tttgttaagg gtgaccacac 360  
 gtattttgaa attgacttgt caatggaagg aactcaactg tattcccatg taaattatac 420  
 aacagtgaac gagtacttgg atactctagt ttaggatatt tgntcgggtt at 472

<210> 42195  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-F5  
  
 <400> 42195

gggagagata gtcctctcac aatttagcct tgacaactcc tggaacagag ctatgattgt 60  
 taatggacct cgctctgtag aatctctaaa cgacaagttt gaagtattct atattgacta 120



tggcaaccaa gaggtgggtc cctacagtcg tctacgaccc gtggacccat ctgtttcctc 180  
 ttctctgct cttgctcagt tatgcagcct tgctttcata aaagtgccca gtcttgagga 240  
 tgactttggt caggaagcag cagagtatct aagtgaatgt ttgctcagta gctcaaagca 300  
 atatcgggca atgattgaag aacgtgatgc ttctggggga aaatcaaagg gacaaggaac 360  
 ccggaatggt ct 372

<210> 42196  
 <211> 459  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F6

<400> 42196

aggaggcaaa gccgccgac ttgtgctgtg gaggaacaaa caggcatccg ggagcatctt 60  
 ggcaggggtg actgtgatct ggctgctgtt tgagggcatc ggctaccacc tctcacctt 120  
 cctctgccac gcactgattg tgtttctcac cgtctgggtc gtctgggtcta atgttgctc 180  
 ctttgtcaac aggtctctc caaagtttcc agaggtgatt ctatctgaag cccaatgcct 240  
 gaaggtagct catattgcaa ggaaagaaat caacgaggct ttctatacat tgcgcaatgt 300  
 cgcttctgga aaagatttga aaacgtatct gatgtcaatt gcagtgtttt ggttcatttc 360  
 gataattgga agctgcttca gcttcttgac tgtgtcttac actattattt tgcagttttc 420  
 ctgatggcat acactctgcc aatgttatat gaaaaatac 459

<210> 42197  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-010-Q1-K1-E2

<400> 42197

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 ccggggcatc accctggcgt aaccaagct cgccttgctg gcgtgggcgc cttcatgggc 120  
 ggccgggctg aaccctggct ctgtgaggat agcagtcgct cctgctgaat ttgacatc 180  
 atcacgtca gcacggcat cgtcatcacc atcaccacag ctctgcactt ccccaaactg 240

gaccatcgat gtctcggacg tncgaactat caaggtgaac caacgtgcct ctctcggcga 300  
 ccgcggggga acatgaagga gttctttctcc ttctacggcg agatcgagta cgtcgagatg 360

<210> 42198  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-010-Q1-K1-D1

<400> 42198

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 gtttaaccag ccaactatat tggctctcaa taaggatag atcaaaggaa ttactatcc 120  
 atgatattgg ggccaccaat cgtggctgct atcatctaca tagtacagat tggaggacct 180  
 taacctggct atatatctct ggcgttntat gtttgtatta gctctactga tgatgacaat 240  
 ataccccatt gtgatagctc ctctgttcaa caagttcact cctcttctctg aaggagtcct 300  
 canggaaaaa atagagaagc tggcagcttc cctcaagttt cctttgaaaa agcttttcgt 360

<210> 42199  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-D10

<400> 42199

ggcagtacca gcagcggccg gccttttagct tactacaccg aagccgctga tcctcggggg 60  
 gtgaccagag cagatcttga acctgctcca agagacggtg gcagggaaag ccaggaaagg 120  
 cgccgctcct tctcgtttct gtggccggtt ggcccgctga gttccagatc cacttcttac 180  
 cagtacgaac agaatgttga tgagcctgca gtatacgatc caaaccatat agcatattct 240  
 gagtggcact atgaccactg actgaaacct tgcagcaagt gcacgctatc tgcaattcgt 300  
 gccttcaacc ctacgctttg gagaggcatt catcatctgt catggctgct tggcgcagta 360  
 aacaaggatg gttcttgctt gtgatactgg gcttactgca tatccgtgct ccgtatgt 418

<210> 42200

<211> 344  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-D11  
  
 <400> 42200  
  
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 gggcgccctcc ggcaatggca agacagacag cacgaaggct gtgcaggagg catgggcatc 120  
 ggcgtgcgccg ggcactggga agcagacaat cctcataccc aagggtgact tccttgtcgg 180  
 acaactcaac ttcacaggcc cttgcaaggg cgacgtgacc atccagggtg atggcaatct 240  
 gctggcgacc acggacctaa gccagtacaa ggaccatggt aattggatcg agattctacg 300  
 tgtggataac ctgggcatca ccggcaaggg aaaccttgac gggc 344

<210> 42201  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-D2  
  
 <400> 42201  
  
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 gtttgaacga gcaaactata tggctcttca ttagggatat gatcaaagga attttactat 120  
 ccatgatatt ggggccacca atcgtggctg ctatcatcta catagtacag attggaggac 180  
 cttacctggc tatatatctc tgaggtttta tgtttgtatt atctctactg atgatgacaa 240  
 tatacccat tgtgataact cctctgttca acaagttcac tcctctttct gaaagaatcc 300  
 tcaggga aaa a 311

<210> 42202  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-010-Q1-K1-D3  
  
 <400> 42202  
  
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tgaagctcac aggtggcaat agatatacat gtgggttttt cacaggcttg taacaaatcg 120  
gagtttgcac tggctgtgga gtgtaactga caagatgcag agctcttcaa atatcttggt 180  
acttttttca gcanatagaa atttaacctt tgtgttttat ctgtttctgt ttgcttacag 240  
agttcactga tgttgattaa cattgctagc atgccttaag ttttgaaatt ggttggttgg 300  
tgtagtcttg gtattagttg gtggtagtag gttttgatac attttatttc ttccactct 360  
ttagagaaag ttttgcattt gcaaaatctt ctcatcagt ggaagctcca agcaatatac 420  
atatacanat tacacaaggt ccttnccatat gaa 453

<210> 42203  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-D4

<400> 42203

tttaaagaac tcctttataa aaaccagatg cttcaagccc ttagaatgcc taaaacgagg 60  
taaaagaaga gaaaaacact tggctcatcag aagaccacat tgcgacatca gaggatattc 120  
tcaataccaa tttgccatgc acaactatga cagaatgtgg gaaatatctt tacatgagag 180  
gtcttcgcta gtccatacag taccctgtga tatggactgg catgcattac atgggacaag 240  
cgatacacac aagtgttatg tcacgatgct cgtggcctaa gcaacctc 288

<210> 42204  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-D5

<400> 42204

ggcgatgctg gttgcgctgt ttgcggttgg tttgtgcacc acccgcgtca ccttccaggt 60  
tggcaaggga tccaagcctg gccacctgat cctcaccccc aatgttgcaa ccatatctga 120  
cgtggagatc aaagagcacg ggggcgatga cttctccttt acgctcaagg agggcccgac 180  
cggcacctgg acgctcgaca ccaaggcccc gctcaagtac cccctttgca tccgctttgc 240  
tgtcaag 247

<210> 42205  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-010-Q1-K1-D6  
  
 <400> 42205

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 taccaccacc accgcaggag cgagatggag atgaagagga tcctcttcgc cgtcctcgtc 180  
 gtcacgcgcc cctcgccac cgcagtgtg gctccaccg aggcgcgcgc cgcggggcgcc 240  
 ccaactgcct ccgagtcgtc cgcgcaggct cccgctggcg ctggcgctgg cgtcgcgcgt 300  
 ggcgcgcncg cctcggggccc ctccgccagc agcggcg 337

<210> 42206  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-D7  
  
 <400> 42206

gaagaagatc gctgcgcgc tcctcatcgc cgtctcggcc accgtggcgc tggcgcggga 60  
 ggcgcgcggt ccgtctccca ccagcgggtc ctccgcggtc gcacccgcca tcgtcggggc 120  
 cgccgtggcc tccttcttcg cgtactacat tctactgagc gccggacgag gagccggagc 180  
 cggagggag agaccaaggt ggggggagag acttggtgtc gctgcgctgc tctgctgtc 240  
 ccgcgcattc ccgatgcgtg ggcgtgctct gattgggcac ggcggtggca gtggcacacc 300  
 ttctcttcc ttttgttgt tttttttcc ttctcttcc tacttgattt tcatttaacg 360  
 aattggtatc gctgatgcac cagtttaatt tggcgccctg ttatttggtc tttccctcga 420  
 gtgaggatc gacacctgta ccattgcttg ccatttgtct gg 462

<210> 42207  
 <211> 470  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-D8

<400> 42207

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ggcacgcgac caccggcggc ctccggcgga agatctacgt ggtgaccgac cccaccgacc 120  
tcgacgtggt gaacccgcgc cccggcacgc tgcgctgggg cgatcatccag cccggcccgc 180  
tgtggatcat ctccgcgcgg tccatgatca tccagctctc gcaggagctg ctcatgagca 240  
gcgacaagac catcgacggg cgccggcggc aggtgcacat cgccaacggc gccgggatca 300  
cgggtgcagct ggcgcaaaac gtcacatcc acaacctgca cgtgcacgac gtcaagcaca 360  
ccatgggcgg cctcatgcgc gactccccca cgcacatcgg ctcccgcacc agggccgacg 420  
gcgacggcat ctccctcttc tccgncacca acgtctggat cgaccacatc 470

<210> 42208

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-E1

<400> 42208

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cctcgtggtg ctccctctgg ccgcccgcgc cgtggcgccg gttgcggggg ctccgcgtgt 120  
ggatgtcgtg gaaggcaagt ccatggcgtc cgccgacgcg cctgaggcgg gggctgacgc 180  
gcccgtccc ggtcccgaact ccgncatc cncggactcg ccgtcggagg cgccctccag 240  
cagcagctca tccgactagc cgcgcaaac gcagttcttg tcatgatcta tctagcacat 300  
aaaaagatca tatgtctcgt ttgattctct ggaataacta atagtatata tgctgcgccc 360  
ggatgatata taaatatgtg catcaaagtc gtgcggcaaa cgcatggaat gtgc 414

<210> 42209

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E10

<400> 42209

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ctgatcgcg atgcgttcct gtccatgatg tgctccatgc gcaccttcac cttctttcttc 120  
ttcgacgcct gcatcggggg catggccatc ttctgtactca cgctgctggc ggagacccaaa 180  
ggcgtgtcca tcaactagat ggtggaccgg gtctggcgcc gccattgggt cttgaagacg 240  
tgcttcgccc acgactacta cgcggccagg gtctacgaca actgctagtg ctaggcacgc 300  
gcgccgccgg ggattagttt ttttgtcatt ggaaatagaa aatcggcctg atttattgga 360  
ttttcgtgct atgaccttta aattgatgtc tgggcaatta acaggcaaaa ctattttgta 420  
tatg 424

<210> 42210

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E11

<400> 42210

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aagcgacatg tgtgggcagc aaaggcccat gcgagaacga cgccaatcaa acgagacaag 120  
catagaccta ctgtccaaag tgtgctaatt cgatcagggt cctgagcgac agacatgact 180  
agtaaacyca ctgctagagt gaaacatctt ttaatggatc cagccaacag cgagtacatc 240  
ttccccctga accttttcag gggagcacia ggctacttta cacatgtcag aactcttcat 300  
ctgggatatg actgtctgga cacaacctag actgaattca tgaactatgc aaatcttaag 360  
aagctcactc tgcacaagat ttcttttttg ggagacctac agtgccctgat gctgccagaa 420  
tgcaattcat ctgagtgtct gagcatcagc atctggctct tgccctggctt aagc 474

<210> 42211

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E12

<400> 42211

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tgctgctgag gcatgctcca gaagaaatgc aggctctggg cgccctgcac atcattgcac 120

tcattccacg cacaaaagct ttgcatattc ctttctaacg cgcaacgatg cacatgccga 180

ctcatcagat aaaacgcgca tctcgtgccg gtgaggagc tcgtcaaaaa tgcccgagc 240

tgcgctcacc cgtgcgacct cttcagggga ctgcagtgc cataacacgc ggtgggtctc 300

cggcagaagt ggcagcagtg ggcgcccgtt cctcgcgcag aggctccacc agtcgggagg 360

cgccgagaac agcatgtcg 379

<210> 42212

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-C9

<400> 42212

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cattgcgccg cctcgtcgc cgacgtctgg gccatcggct cactggactc agtggcttct 180

gatgagccct gcaacgcact cgccggaccg gccggcattc ttcttggtcc tagcgtaagc 240

ggctacaccg taacgctgcc gcccaatgac gactcgtctt ggcgctgttg ttagagtacg 300

gacctcaatg atctatcaag ctctcagctg taatctattg aagtctctga tgtagctgaa 360

cctactaatg aatcctgaca tcatgctaca 390

<210> 42213

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-B6

<400> 42213

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cagatgcata ataaaaggtg aaagctagca gaagaggtac ctaactctac cctactatag 120



agaaaaagtc agcacattgc aagcaataat aatggagacg acgacgaagc tccggtggag 180  
 ccggccccgc tcttctctcc tcgtcgccgc ggcgttctcg gcgtccgcgc ccgcgtcggg 240  
 cgtcaacgtc ggccagttcg acgaccactt gcagaagcgg aaggagctcg ccgaggcgtc 300  
 ggcgagggag gcgtacaggc ccgacccgta caacgtcacc aacag 345

<210> 42214  
 <211> 459  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-010-Q1-K1-B7  
  
 <400> 42214

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 cctcctggcc gccgtcgcgg tggcgccggt tgccggggct gcgcgtgtgg atgtcgtgga 120  
 gggcaggtcc atggcgctcc ccgacgcgcc tgaggcggcg gctgaacgcgc ccgtccccg 180  
 tcccgactcc gcctcatccc cggactcgcc gtcggaggcg cctccagca gcagctcatc 240  
 cgactagccg cgcacaacgc agttcttgtc atgatctatc tagcaaataa aaagatcata 300  
 tgtctcgttt gattctctgg aataactaat agtatatatg ctgcgcccg atgatata 360  
 aatatgtgca tcaaatgcgt ggggcaaacg catggaatgt gcttgccctag ctagctaata 420  
 ngttgtnttt ttttctttac ttttcttcat acctgtctc 459

<210> 42215  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-B8  
  
 <400> 42215

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 agtacaatgg catgatcgat gcattcagga agactgttcg tcatgaagga gttggtgctc 120  
 tgtacaaggg tcttgtgccg aactcagtca aggtggtgcc ctcaattgcc attgcatttg 180  
 tgacttacga ggttgtgaag gatgtgctag gagtagagat gaggatatca gactgaggat 240  
 ggtcgttttc aactgctatt tttgtaggct ttgggaagtt gtgttttttt gtaggcaggg 300

cgggtagaag gatatgaccg eggctccatt cagcatcagc ccatgttgga tatatcatat 360  
 atcctgccac tggcttcagg tcctagaatt gtttgcggg tcgtgcaaaa agtaataagt 420  
 eggctgtaaa gcttattaag catctgccta actcatcaaa a 461

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 <213> Zea mays  
 <223> Clone ID: LIB3075-010-Q1-K1-C1  
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 cagaagctcg aggagcagaa gaccgaggca gaggaagttg tgggtggagga tgaggaggag 180  
 gaagatgagg acgatgacga tgatgacaag gatgatgatg aactcgatgg ggatgccagt 240  
 ggcaagtcaa agcaaagcag gagtgagaag aagagccgca aggccatgct gaagcttggc 300  
 atgaagccca tcaactggtgt cagccgcgtc actgtaaaga aaagcaagaa tatactcttt 360  
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 ga 422

<210> 42217  
 <211> 152  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-010-Q1-K1-C11  
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 acttgatgc gacgctgtac gaggacacta ac 152

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 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-C2

<400> 42218

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gccggggccgg gagaccggac gataattgat ccgtagcaga ttcgctatgg cgagacggcg 180  
gacatggagc ggatcttcaa gcggttcgac accaacggcg acggttaagat ctgctgtcg 240  
gagctgacgg aggcgctacg gacgctgggg tccacctctg ccgacgaggt gcagcgcatg 300  
atggccgaga tcgacaccga cggcgacggc tgcctcgact tcaacgagtt catcaccttc 360  
tgcaacgcc aaccgggggt catg 384

<210> 42219

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-C3

<400> 42219

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atggagatgc cgaggacaaa ggtattcaaa cctccgagga ttacaggttc tatgccattt 120  
cagccgaata ccctgagttc agcaacaagg ataagaccct ggtgctgcag ttctctgtga 180  
agcacgagca gaagcttgac tgcgggtggtg gctacgtcaa gttgctgggt ggtgatgtag 240  
accagaagaa atttggtgga gacacatctt acagcattat gtttggacca gatattctgtg 300  
ggtacagcac caagaagggt cacactatcc tgaccaagga tggcaagaac cacttgatca 360  
agaaggatgt gccttgtgag actgatcagt tgactcatgt ttacactttg atcatccgtc 420  
ctgatgcaac atacagcatt ctcatgata atgaagag 458

<210> 42220

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-C4

<400> 42220

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 accgggatgg catattgaat gcagcgcaat gagtgtcac tatttaggac atctattcga 180  
 tattcatggt ggcgggaaag atttgatttt tctcatcat gagaatgagc ttgcacaaaag 240  
 ccgagctgct tatcctgaga gtgaggtgaa gtgctggatg cataatggct ttgttaacaa 300  
 ggatgataaa aaaatggcaa aatcagataa taactttttc acgattagag atatcactgc 360  
 tctttaccat ccattggctt taagattttt cttgatgcgc actcattata gatcagatgt 420  
 gaaccattct gatcaagcac ttgagaatgc atctgatac 458

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 <211> 460  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-010-Q1-K1-C5  
 <400> 42221

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 caagtcgaag cgaagcttcc ggttcatcac gttcaagatc aacgagcaga cgcagcaggt 180  
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 cgagagcgag tgccgctacg ccgtcttcga cttcgacttc accaccgacg agaactgcca 300  
 gaagagcaag atcttgttca tctcctggtc cccggacacc tcgaggggtca ggagcaagat 360  
 gctgtacgag agctccaagg accggttcaa gagggagctg gagggcatcc agctggagct 420  
 gcaggccacc gaccccagcg agatgagcat ggacattgtc 460

<210> 42222  
 <211> 466  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-010-Q1-K1-C6  
 <400> 42222

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aagcatttat gtgatgattc ggtttactgt ttagcaatg gcagaaaaat ggataacaag 240  
attgttacag aaatcaattt ttaggatgtt gtatatgtga agtgtccatg aaaaggtctt 300  
gctgtatatg atgaggtggg gttgaactca attt 334

<210> 42227  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-010-Q1-K1-A11  
<400> 42227

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ggacgacggc cacgatccct cgaaggcgga caagggattc cacggaggag ggtacccggc 120  
cgccgcccgt ggatactacg gcggccagta ccccgcggc ggctaccctg ctccaccggg 180  
cggcggtgcg taccctcccg gccctgggta cccggtacca cctggtgggt acccgtctcc 240  
gggtggctac cctcagcctg gcggataccc gccgtcgac ggggcgtacc cggcgcggg 300  
tgcattgcgg tatcctgcca gcgggtaccc ccatcaaccg gtctaccac agcctggcta 360  
tccatcgatg cccggtcatg gtggcatgta cggaggacgc cacggtgcaa ggggctctgc 420  
aagccacggg gcgatgct 438

<210> 42228  
<211> 376  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-010-Q1-K1-A12  
<400> 42228

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gcataaaaga tataagcgta tgccagtatc acacggtcca ttgcgcataa tgcaattatc 120  
ttggtgtggc cagcccccta aatccaagtt gtctgtgca gaattttgtc ttgtataagt 180  
gtccaagcaa accatttaaa tgtgcctttg aactgcaccc ggtacttatg cattgttaaa 240  
ttttagttt ggtgacactc tacttgtttt gcttctgtag ttggtggagc gggcacagtt 300

ctgggtgaat gaattggagc ttatgaacgt ctattttatg gttggcaatg ccacgatgtc 360  
 ttttgagaaa atcata 376

<210> 42229  
 <211> 71  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A2

<400> 42229

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<210> 42230  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A3

<400> 42230

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 ggggatactt ccttatgctg gtcttaagtt ctacatatat gaagggctga aggtacatgt 180  
 accagaagat tacagaagtt ctgtaacatt gaagctgtca tgtgggtgctg ctgctgggtt 240  
 atttggacag actctgacat atgcattaga tggtgtcagg aggcagatgc aggttcaaaa 300  
 atcagcaaca acatgagcaa tttggtgccc cacgaataac gggcacattc caggggtcttg 360  
 tgtccattaa acaaacacag gggttgaaac aattatttgc tggcttgagc ctcaattaca 420  
 tc 422

<210> 42231  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A4

<400> 42231



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 tgtacgtaca acactcatgc ggatacttac ttatgctggt cttaagcact acatatatga 180  
 aaggctgaag gtacatgtac cacaagatta cacatgctat gtaacatcca agctcacata 240  
 caacgctgac tgtaggatta tttgaacaga ctctgacata ttcattatac gttgtcagga 300  
 ggcaaatgca agttcaaaat cagcaacaac atgagcaatt aggtgc 346

<210> 42232  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A5

<400> 42232

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 aataatgaag agccgcagca tggcatcatc ggccgcgctc ttggtgctag ccctcgcgct 120  
 agtggcgggc accgccccac aggtagcgga ggcaaagaag aagagagcgg cggagagcgg 180  
 cgaggcgggc gaggcgaaga agatccagga cgacttctgc tcgacgctgt gcgagggcaa 240  
 gaaggggacg gacctggtcg tgtgcaagga gtctcgctct ctctaccagc agtccaacct 300  
 ggtgctgtac ggcaggatcc agtgcaaggg caagtgcacc gagcagaagg gcatcacggc 360  
 gccggccatg aaggtctgcc aggaggagtg cgacaaggcg tacgtggtga aggcggccga 420  
 ggtcacc 427

<210> 42233  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A6

<400> 42233

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 gcgacggcgc tcggcctcgg tgcgcgctcc ggctccgac tcctctccgc aggcgcctg 120  
 gccgcctcag caacggcttc tcgtgcattc cattctactg gcgcaaggag gatgggggcg 180

cacgctcatg atgagccata ctacgtccac gccaaagcaca tgtacaacct gcacaggatg 240  
aagcaccagc agcttaaggt gtgcctcgcc gtgctggctg cgggtgggcac tggcattgga 300  
gtccctgtgt atgctgttgt tttccagcag aagaagactg catctgcata atctgaaacg 360  
ccgaggtggc tcgacatgaa aacatgcct 389

<210> 42234  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A7

<400> 42234

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ggcttctctt aacaggtttg agtatcatgc agctgctgaa gttattaagg tggttgagtt 180  
tgaggaagtc gatggaggca cgaaaaccag gatcacgaac agggagaaat catgattaaa 240  
actcaaggaa tggttggttt cctgtaaact gtatagctct ttcgtttttc atggatgggt 300  
ggctttttat cttcacatgt cacgtgtagt gtgtaccgca acctcaatgt cagttccttt 360  
tgttttgctc tgcattatth tactagaaaa ctgcatggcg ctggcgt 407

<210> 42235  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A8

<400> 42235

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aacagtttta cttggaaacc ttccacgaac aactatatac aggaatgtag aacagtatcc 180  
tgatgctacc aaggttccag ggggtctgat tgtagagtg gactcagcta tatacttcac 240  
aaactctaac tatgttaaag agagaatcct gaggtggcta agagatgagg aggagcaaca 300  
acaggaccag aagttaacaa aaactgagtt tctaatacgg gacctgtctc ctgtaattga 360

tatcgacaca agtggaaatcc atgcttttga cgagttggcg aaagctctcg aaagcgcaat 420

<210> 42236  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A9

<400> 42236

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gtggcccgctc tgcagcgctt caacgacggc gtgcacaggg cgacggcgac gcggtcgcgg 180  
tccttgccgc acagggcgcg gggcccctgc acggcgacca accccatcga ccagtgtctg 240  
cgggtgccgcc gcgactgggc ccgcgaccgc aagcgcttgg ccaggtgcgc catgggcttc 300  
ggccacagga ccaccggcg gctggccggc aagttctacg tggtagtga cccagcgac 360  
gacgcgctcg acctcgtcac cccaggaag ggcacgtcc ggcacgcgt gaccggggc 420  
cgggcgctgt ggatcacctt cgcgcgcgac atggtagtgc a 461

<210> 42237  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-B1

<400> 42237

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ccaccgctga cacttctata tgcgctgctt cttcaggaag ccatgggtga tcgccgtgct 180  
ttagtctctg catctgatgg catgcgggccc cgtcgagcgc cgctacgagg gtgagcaggc 240  
gtgccattga cactctgcgg gcgagcctcc actggcgggc gaactggctg ccgccgctgc 300  
accgatcggg cgagtggaaag ggagtgctag cgggagcagg gccacatatt tggttttctc 360  
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<210> 42238

<211> 313  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-B10

<400> 42238

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agagtgaaga gcatggctcg ctcttagaca agatcaacga caagatcaac gagaagatcc 180  
atgagtataa gcactcgctg tctctctcct cctcttcgga ctgagacgat gacaagaagc 240  
ccaagaagtc taagaagaag aagctttttg gaagaaaaca tccattgcat catgtcctcg 300  
gaagaagcaa aac 313

<210> 42239  
<211> 416  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-010-Q1-K1-B11

<400> 42239

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cgtcaagctt ttttgacagt gtctggacag cttcaggttg agacatatgc atgtgctctt 180  
agtagcgttt atacctttgg accaacattc cgggcagaga actcacatac gtcacgacat 240  
ttggcagagt tttggatggg tgaaccggaa atcgcatctg caaacttgca ggatgacatg 300  
aactgtgcag aaaaatatgt acagtacctt tgcaagtggc tgcttgacca ttgccaggaa 360  
gatatggagt ttatggtgaa aaattatgan tagagtgcaa ttgaacgcct ggagct 416

<210> 42240  
<211> 249  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-010-Q1-K1-B12

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ctgtcaccgg cacgcaggac aagtgcacgg cgtgcgacaa gaccgtccac ttcacgcacc 120

tcttcacggc cgacggcgcc atctaccata agacatgctt caagtgcagc cactgcaaag 180

gggtcctctc gatgtgcagc tactcctnca tggacggtgt gctgtactgc aagaccact 240

tcgagcagc 249

<210> 42241

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-B2

<400> 42241

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gttggaatt ggaaggatat tctagataac aatgcttaag cttttaacgg caggacaacg 120

gtggacttga aaggccagtg gaagaacctg ctttttccgt gattgtaccg gg 172

<210> 42242

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-A1

<400> 42242

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gctcgcgtca tgtgcgctca gttcagcgcc ttcattgggca tccctttttc atggatcctc 180

ctcacagtca ttccccagtc tgttgattac tgggtctgct atgccgtcac actcttttta 240

atgggaatta ccataagctg gtgcgctact tgtgcaaaca accccatgtt cgcagaggta 300

gtccctccca agcaccgcac aatgatctan cgccttgacc gcgcatttga ggggtcattt 360

ggctcgc 367

<210> 42243  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-010-Q1-K1-B4

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 gncaaagtga tcaccaagca ctacgcggaa gaaggcgtgt ggaagaactg ggtgtggcac 360  
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 caggtcgaca ccaacgagtg ggt 443

<210> 42244  
 <211> 466  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-009-Q1-K1-G6

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 ttcactgaaa ggaaggcatt cacatcacag gtcaacatta gaggtcccaa tattctgggt 240  
 catacataat gaacccatat tattggacaa acattatcaa gccaaggctc tctcaaatat 300  
 ggtcgtagta gttcagtcag atgatgattc ctgggaaagc catttgagct gcaatggaag 360  
 acccatctta tgggatttga ggaaaccggt taaagctgct attgctgcaa ctgctgagta 420  
 tgtatctggt ctacttctc cacatctggt ttatagccat gctcat 466

<210> 42245

<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-G8

<400> 42245

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gcaagaacat cacggccacc tatggcaagg actggttggg cgctaaagcg acatggtatg 180  
gcaagccgac ggggtgccgt cccgacgaca acggtggcgg ctgcgggtac aaggacgtga 240  
acaagcccc cttcaatagc atgggcgcat gcggcaacat ccccatcttc aaggatggtc 300  
tgggttgtgg gtctgtcttc gagatcaagt gcgataagcc tgtggagtgc tccggcaagc 360  
ccgtggtggt gcacatcacg gacatgaact atgagcctat cgcggcgtag cacttcgatt 420  
tagcaggcac ggcgttcggc gccca 444

<210> 42246  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-G9

<400> 42246

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acagggccgc aaggggccat cagcgccgaa gggatggtgt catttgaaa tttgatcaac 180  
tgcaaagtac tgggcaactg cgacaagaac ctgggccccg aagcctcccg cccaaggaaa 240  
cccgccaacg actacacccg cggttgaac ccgatcaccg gctgtcgcgg ctgatcatat 300  
ctctctggtc gatgggcgcg caatgtcaat gtcgcacgcg cgtgcaagta ccaagcctta 360  
acgtgtggtg ccgcgtgtgt gtatatatta cacacatgca ttatacatt 409

<210> 42247  
<211> 205  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H10

<400> 42247

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ggtctaaaag ggctcgagtg ctgttgacac attcgcaatg gaaggctggt caagaattca 180  
gcaagaagaa cacggacctt cctgc 205

<210> 42248

<211> 136

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 42248

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<210> 42249

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H2

<400> 42249

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ttctacagtt tgctgcagag aagaacatac acttaatttc tgatgaaata tttgctggtt 180  
caacatatgg aagtgacaag tttgtcagcg tggcagatgt tgtggatgaa ctagaggact 240  
ttgataaagg cagggttcat atcatatatg ggctctcaaa agacctatct cttgccgggt 300  
ttcgagttgg agtgatatat tcctacaatg aacacattgt atcggctgct gctaaaattg 360  
ctcgattttc atctgtctca agtccaacac aacgtttgct tgtttccatg ctttcagatc 420  
aaaagtttat ttcagaatac ataaagggtta acagagagag gctccagaaa atgta 475



<210> 42250  
<211> 465  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H3

<400> 42250

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gaaggcatcc ggaagaacat ctggtatgga aagtttcaag gacaagagct tatcgaatgg 180  
aatgttcttc cttgatcttc ttagcacagt acagccaagg gttgtgaact ggaaagttgt 240  
tactaaaggg gaaactgatg aggacaagaa gctgaatgct acctacatca ttagtggtgc 300  
aaggaagatt ggatgctctg tgtttctggt gccagaggac atcattgagg tgaatcagaa 360  
gatgatccta acacttactg ctagcattat gtattggagc ctacagaaac agccccagtc 420  
acaatctgaa ttgacagaac aatcagaacc atctagcatg acttc 465

<210> 42251  
<211> 468  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H6

<400> 42251

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caatgggtgg tcagcaacag gtgttcctta gaggtggctg tggctatogc taccctactg 180  
gacgtggaat gcctgatcct ggcattgcaca gtgttgggtgc tgtgatgcca ccttcattatg 240  
agatgggagg gatgccaatg agagaagctg cccccaacc tgttccaatt ggggcgctag 300  
ccactgcact tgctaacgcc ccaccagatc agcagagact tatgcttggg gagaacctgt 360  
atcctcttgt tgaacagctg gaacgtgagc aggctgcca ggtcactggc atgcttttgg 420  
agatggatca gacggagggt cttcacctgc tggagtcgcc agatgctc 468

<210> 42252  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H7

<400> 42252

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gctgacgtac ctggacttag tccaggtggc ggctgtccag gccttggtgt gcctcgatgg 180  
gctctacgga ctgcgaagg accacgccgg cccgctccgt cccagcgttg acgccgtcga 240  
gtctgtcgtc tagggcgctc atagccacgt ctacgaccgc ttcagcgagc tgccgctcga 300  
catcctcgac ttctctgacc gcaaggcgga cgacacggtg cagcagctgg acatgcacca 360  
tacgggctcg ctgaaagcgg cgtccgtgca tgtc 394

<210> 42253  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H8

<400> 42253

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tggtggctac aacattaaga cggggccagg ctgcagcatc gagctgatga aatttgacat 180  
gggaggctct gcagctgtat ttggtgcagc taaagctttg ggacaaatca agcctcctgg 240  
agtagagggt cactttatag tcgctgcctg tgaaaatatg atcagtggca caggcatgag 300  
gcctggtgac attgtaactg cttccaatgg gaagacaatt gaggtaaata aactgacgc 360  
agaaggaagg ctaacacttg ctgatgcttt ggtctatgct tgcaaccaag gtgttgaaaa 420  
gattattgat ttggcg 436

<210> 42254  
<211> 84  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H9

<400> 42254

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acccggattg tatacatcgt gtac 84

<210> 42255

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-F11

<400> 42255

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cgtccctcct cctcgtcgtg gccgccctct cggcgcgcgc cgccggcgcan caggtgccgc 120

cgggtgggcgg cagcgctctg aagccggact actacagcca gtcgtgcccg cgcgccggagc 180

ggatcatcgc ggaggtgatg cagacgaagc agatggcgaa cccgacgacg gccgcgggca 240

tgctgcgcgt cttcttccac gactgcttcg tcaccgggtg cgacgcgtcg gtgctgatcg 300

cgtccaccca agtccaaaag tcggaacacg acgcggagat caaccactcg cttcccgggg 360

acgccttcga acgcgggggg cgcgccaagc tggccctgga gctggagtgc cccgggggtgg 420

tggtctgcgc cgacattc 438

<210> 42256

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F3

<400> 42256

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acctccgtag ccgccgccgc caccgccggc accgaagatg atctccccgg acgcagcccc 120

caacgtagtc ggcacatcgc gcaatgtcat ctcttcggc ctcttctgt cccagtgct 180

gacgttctgg cggatctaca aggccaagga cgtggaggag ttcaagccgg acccttacct 240

ggcgacgctg ctcaactgca tgctctgggt gttctatggc atccccgtcg tccaccccaa 300  
cagcattctc gtcgtcacca tcaacggcat cggcctcgtc atcgaggccg tctacctcac 360  
tatcttcttc ctctattccg acagccagaa gcgcaagaag gcgttcgcga tcttgccgt 420  
ggagattctg ttcattggcg ccgtgggtgct cggtgtgac ctc 463

<210> 42257  
<211> 470  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-009-Q1-K1-F4

<400> 42257

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tacgacttgg caagaagaaa cttaagacga gcgtgaagaa gagatctgtg aaccccatct 180  
ggcacgagga gctaactctg accgtcacag atcccagcct agctctgaag ctggaggtgt 240  
tcgacaagga cacgttcagc agggacgacc cgatggggga cgcgagatc gacgtggcgc 300  
cgctggtgga ggcggcgaac gctagccctg aggcgagcct gaggaacggc gccatcatcc 360  
tgtcggtgag gccgatcgcc acgaactgcc tcgccgacga gagccacgtg tgctggagga 420  
acggcaagtt cgcgcatgac atgaccttc gnetcaagaa cgtggagagc 470

<210> 42258  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F6

<400> 42258

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gctaattgga gtctctcccg tagtcccggt tttgagttgt tctcctctca tctccatctt 180  
cgcaacgacc acgaattcca cggccaacca atctctggtc tatcgctctc ttctccttgt 240  
ctttaaatct gagacttttt ttgttcgct cctccgccct caaccgtagc cacctcgctg 300

ccccgccgt cgacaccct gctcgccgtt gctgcagccg cacaggcgat ggatcatgaa 360  
gaagtgaccg aattcctggg ccaagtgcc cttctgcagt gccttcggg ttcctctatc 420  
cgcagaatcg cggaggccgt ccaggtcaag aac 453

<210> 42259  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F8

<400> 42259

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atgaatctaa tgtccgttga ttgacaacgt gctttactgc gaaaacactg gcaaaaccct 180  
gcttaatcgc attgcaatac atttgcattt catcagctgt ttactagcg aagaagctcc 240  
ggaccaatcg cgcttcgat cgaccttcgc aacctgtatg gagaatgga 289

<210> 42260  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F9

<400> 42260

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atcaagtcgc gatggagatg aagaaggctg cctgcgccgt cctcgccgcc gccgccttcg 180  
ccaccgtggt cctcgccgcc gagggcccg cgcccgcc caccagcgcc tcctcggtg 240  
cgttcccgcc cgtcgccgcc gtgctgagcg cctcgtgct ctccttcttc gcctactacc 300  
tgagtaaaa ttaaagagg atcggaagga gaggtgctg gctgccattg cctgtattcg 360  
gttgatccc cgttatatat atatatat atttaaggac tttaatttgg gctgaacatg 420

<210> 42261  
<211> 443

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-009-Q1-K1-G1  
  
 <400> 42261  
  
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 caagggggga ggggaaaaca cgtacattca cccggcggca ataatggcct cggttccggc 120  
 tccggcgacg acgaccgcgc cgtcctcct atgcctatgc gtcgtcctct cctgtgcgcg 180  
 ggctgacgac ccgaacctcc ccgactacgt catccagggc cgcgtgtact gcgacacctg 240  
 ccgcgccggg ttcgtgacca acgtcacga gtacatcgcg ggcgccaagg tgaggctgga 300  
 gtgcaagcac ttcggcaccg gcaagctcga gcgcgccatc gacgggggtca ccgacgcgac 360  
 cggcacctac acgatcgagc tcaaggacag ccacgaggag gacatctgcc atgtggtgct 420  
 ggtggccagc ccgcgcaagg act 443

<210> 42262  
 <211> 196  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-009-Q1-K1-G11  
  
 <400> 42262  
  
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 cagcggcaag ggcgactaca ccaacatcac cgcggcgctg gaggatatcc cgggtgagca 180  
 caccaagcgc gtgac 196

<210> 42263  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-009-Q1-K1-G2  
  
 <400> 42263  
  
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catcgctcgct gaggaattt caagcccat agctgcacat atactcgact tctactacgg 180  
cgacgacggc ctgggcatg acctctttgc cgcggtgact gccacctctg gccattccc 240  
tgccactgac gatgatgttt ctctgtctac cgctaccacc cctcctatct gcggctacag 300  
tgaagacacc gcagctgctg gtggagccac agcctacacc ccgttgacat ccttcgacac 360  
cactctcaca gccctcctgg aggaagagca gcacatggc cttgacgccg ggttcctccc 420  
gcagatcgat ggcttatcag aggtagcagc atacta 456

<210> 42264  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-G3

<400> 42264

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ggctagcaac cccttcgtta acttgaagaa ggaatacaag ggcattcttct ggcaggagga 180  
catcatcccc ttcttcaga acgtgaccat cccaaggac tgcgacaccg tccaaaagtg 240  
ctacatctac ctctctggac aagtgaagga gaagctgggc acgattgacc cctactttgt 300  
caagctcggc gacgccatgg tcacctggat cgaggcctgg gatgagctga acccgtcgac 360  
ccctgccgcc gcaaatggca agccaagta gatgtgccat cacttcggca ctggagtga 420  
aaagaaagta tgattgggtc ctgcctaggc ccataaata t 461

<210> 42265  
<211> 445  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 42265

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atcaagtcgc gatggagatg aagaaggctg cctgcgcgct cctcgccgcc gccgcctacg 180  
ccaccgtggt cctcgccgcc gaggccccgg cgcccgcgcc caccagcgcc ttctaagctg 240  
cgttccccggc cgtcgccgcc gtgctgaacg cctncgggct ctccctcttc gctactacc 300  
tgcagtaaaa ttaaaggagg atcggaggga gaggtgctg gctgccattg cctgtattcg 360  
gttgatccc gcttatatat atatatat atgtaaggac ttttaatttg gtctgaacat 420  
gtcgattgat ccattcattt tattt 445

<210> 42266  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E11

<400> 42266

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cgtccccggc ccggcacgtc ggcggcgct gtccgtcgtc gccaaaggtca aggtggccac 180  
gccccaggac gaccgcacg cccgccacgt ccgcctgcgc aagaaggtaa gtggcaccac 240  
tgagaggccg aggttgagt ttttcgctc aaacaaacat ctgtacgtc aagtcacga 300  
cgacacaaag caatgtactc tggcttcagc ttcaaccatg cacaatctc tctccaaaga 360  
atttgaatac tcggctgggc caacgatcga aatagcacia aagatc 406

<210> 42267  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E12

<400> 42267

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tcttgaaagt ccgggtggtg aggggcatca accttgcta ccgcgacgca agaggcagcg 180  
atccgtatgt cgtctacga cttggcaaga agaaacttaa gacgagcgtg aagaagagat 240



ctgtgaaccc catctggcac gaggagctaa ctctgaccgt cacagatccc agcctagctc 300  
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ac 422

<210> 42268  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E3

<400> 42268

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tcttctgcgt tgacgttgac ctcgaggccc gcgccgagat gaattccgcc gtcttctccg 180  
catcagcgtc ctctggctcc acctagaccg cttcaccgga tccgacgcag ccctgggagg 240  
ccgggggttc ccaagcggcg gtgccccgga ccgcggtcag gcggaaggac tcggtcaggc 300  
aggcgtgtt gctgatcgtc cacagcaagc tcacatgt 339

<210> 42269  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E5

<400> 42269

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cacttcgact tgagcggcaa ggccttcggc tccctggcaa agcccgggct caacgacaag 180  
attcgccact gcggcatcat ggacgtcgag ttcagaaggg tgcgatgcaa gtaccccgcc 240  
gggcagaaga tcgtgttcca catcgagaag ggctgcaacc ccaactacct ggccgtgctg 300  
gtgaagtatg tggcggacga cggcgacatc gtgctgatgg aaatccagga caagttgtcg 360  
gctgagtgga agcccatgaa gctctcttgg ggcgccatct ggaggatgga cactgccaag 420

gcgctcaagg gcccccttc

438

<210> 42270  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E7

<400> 42270

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gcgtcgtcct ctctgtgcc ggggctgacg acccgaacct ccccgactac gtcattccagg 180  
gccgctgta ctgcgacacc tgccgcgcgg ggttcgtgac caacgtcacc gagtacatcg 240  
cgggcgccaa ggtgaggctg gagtgaagc acttcggcac cggcaagctc gagcgcgcca 300  
tcgacggggt caccgacgag accggcacct acacgatcga gctcaaggac agccacgagg 360  
aggacatctg ccaggtggtg ctggtggcca gcccgcgcaa ggactgcgac gaggtccagg 420  
cgctc 425

<210> 42271  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E8

<400> 42271

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ccgggctacc agtatggtcg aacctcgtag tcttgggaat ttattataa aattcaccgg 180  
attgtctaca gtaaccggtc ggtggtgcac cggaccctct ccaacggcta tcttccaatg 240  
ggcgcgcact ggccaacggc tagctaactg ggcattcagt ccgaagggtg accagactgg 300  
tcagtgccc gtcagctatg gaaaccgccc aatcatatca caaactcagg gcatgtggat 360  
ctggttcagt ggcgcacga atcagtcagg tgccccaca ggcaaccagt ttttaacatc 420  
tttttagaag gggcaataaa tatggggcct ttgggtctac aa 462

<210> 42272  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E9

<400> 42272

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ctggccagtc ttatactggt aagcatggtg aggttaacgc caatgttact attgagcact 180
acctacaagt tgtaaagact gagcttgtaa cacagaggtc ctcaaaggaa ctgaaagtgc 240
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tctcccatct catcacaat gtctgcgcta tcatcggtgg ggtcttcacg gttgctggaa 420
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<210> 42273  
 <211> 459  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C3

<400> 42273

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atagggttcc acgtgcgggc tcgctcgaga cagtggatcc agcgcgggat tccgttgga 180
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agtttgtacc tggaatctca agtcccaggc aagttgtgcc cttgaccact tcttaccaca 360
taatgttctt tgatgtcaca tgttcatgca taggtttaat tttgatggaa cccaataagt 420
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<210> 42274

<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C5

<400> 42274

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gactactaca gataccttgc tgagttcaag actggagctg agagaaagga cgctgctgag 180  
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caccctatta ggcttggact ggcactcaac ttctcagtgt tctactatga gattctcaac 300  
tcacccgatc ggccttgcag tcttgcaaag caggcttttg acgaggccat ctcggaactg 360  
gacaccctga gcgaggagtc ctacaaggac agcactttga tcatgcagct ccttcgtgat 420  
aacttgaccc tatggacttc tgacatctc 449

<210> 42275  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C6

<400> 42275

ctcacagcga taatttggcg aactatggaa agttatgccg tgaaagaaca cataagttca 60  
tggttaaadc tagacaagtg caggtacttg acaatgacca tggaatgagc atgaggccaa 120  
tgctgtcat tgttggcttc atatcttcta gttcaaagga aaagaagaag catgcaccag 180  
tgaaaccatc tgatgcaaaa agaactcgta gggatcgcac ggagatggaa aacgttatat 240  
tcaagctttt tgaaaggcag tccaattggg ccctaaaggc actcgtgcaa gaaactgacc 300  
atccagagca attcctgaag gagatattga acgatctgtg tgcgtataat aaacgaggtt 360  
caaaccagtg aacgcatgat ctcaagcctg agtacaagaa atccacaggg gacactgata 420  
ctgcttgaag atgagagacg actaggtaga atcgatagtt ctc 463

<210> 42276  
<211> 454  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-C7

<400> 42276

cccattcaca ttcggccatt ctccaccgtc caaccaacca cggcgggcgg cacaagggaa 60  
gcgaagagga atcaacgcga tgtctgcgac cacggcgggc gtgcccttct ggcgggcggc 120  
cgggatgacc tacatcggt actccaacat ctgcgtgcg ctggtacgga actgcctcaa 180  
ggagcccttc aagtccgagg ccgcgtcccg cgagaaggtc cttttctcca tctccaagt 240  
gacggatggc aaacaggaga agcccactgt ccgcacagaa tccgatgaat aaagctctgg 300  
tgccatagtg gcatagtcct tgctacagat gatttgaagt gttgttgcaa gtttctgaa 360  
catgctatct agctggcttg attttatagt caatgctgaa taataaatac tttttacgac 420  
aattgtctnt ttcgttgcta attgcactcg ccct 454

<210> 42277

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C8

<400> 42277

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gtcggatttg caagaggaga ggccgcagag cagcgaggtc gtggagacag aaacgggggc 120  
ccatgagcgc acggacgatg gctcaccggc cgtcgttga gaagcagcag caacacctga 180  
gggagaagat gagcttgcaa ccagcgcggc agaagagaag atcgtcgagg agatccagcg 240  
agcagaggcg actgagaact cgaaggcgaa cgcgaaccct gaggaaccag accaagaaac 300  
cggcgtgatc tccgaagaac ccaaggaggg aacgagcgtg gtctctgaag aacaaaaacc 360  
aaaggaggca gctgaccta cactgcgca gaagcgcgag gaggcgttcg acgagccaaa 420  
aacggctgcc ggatcgaacg cg 442

<210> 42278

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D1

<400> 42278

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ttatgagtag atgggatacc ataaaaacac aatgctcact attttctggc tacatggcaa 120  
atgtcctacg agagaactct agtgggttgt ccgacgctga taagacatct ctagcagctt 180  
ctcgatttgc tactatggag aagcgcccat tcactctttt gcattgttgg tctattctaa 240  
aggatgaacc aaagtggatg gatcatagtt ccaataagca agttcgaatt attgaagttg 300  
caccaattgg atcgaacatc atcgacctag accctaaaga ctcttttctt ggtagcacia 360  
catcaaagca acatctaggt caagatgcaa gcaagggaaa aactaaaaag gctcgatcaa 420  
gctcaatcac tgtaagctca tcggatgaat atc 453

<210> 42279

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D10

<400> 42279

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tattctaaac tctactctat aggcaatgtt gtctacgggtg taaaaacagt attttgtact 120  
ctactctata tacagagtta atttgtactc tactctatac agagttgtct acaatgtaga 180  
aacaatatct tatacgggtca t 201

<210> 42280

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D11

<400> 42280

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tctgctgcta gccctgctcc tgcgccggca gtggccaaca gcaatgggac gccacagaag 120  
ccgcctccta ttctgcctc tgccctcgac atgcccaagc caaacctgcg gggccttaac 180

aagcccaagt gcatcttgtg tggtaacatc gcccgctccc ggtgcccatt ccagtgttgc 240  
aagagctgct gctacaaggc tcagaatcct tgccacatcc atgttctgaa gcagacaaac 300  
acattgccag ataagccgtc acctgcaact gtcctgcaa caacagaaca tcaatctaac 360  
aatttacctg caaccagttc agcgtcaagg ctggctgect tgcaaaagct tccccagcac 420  
tttctgaagt ttctgcaaac aaagaa 446

<210> 42281  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D12

<400> 42281

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ctgttcgtga acatcgcggc cgagaaggga tccgggatgg ccacgttcgt gcacgggaag 120  
tacaacaacg ccaaggacag caccgtgttc aagtgtctac acagctgctc ggacgacgtc 180  
gaggaggccg tcgcccacct caacggcctc gtgcgggagc ccaccgacgc caagttcctg 240  
gagctcaagt cgtggctcta cttcacgtc ggcggcacct acacctgcga ggacgcctgc 300  
aaggacctgc ccaagaacgg cgacaaggac gacgtcgtca acttcag 347

<210> 42282  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D3

<400> 42282

cggactcgtg ggctcgtagg agagttcggc atggccggag acctgccgac ttgatggaga 60  
gttgatgcag atctgatctc gcagcatcgt tgaggtagag cgtgctgata acgtgttgag 120  
aactacgtta ccacggatca ccagatccgc tcccttctct tccgtcagca gtagaggcgc 180  
aagaagatgt agagaacccg tctccattcc cataagcacg acagaggaaa cacacgagac 240  
actggatata gggttggacc tctggcctct ttctgatctc tgtattatga gggggtgtac 300  
aggttcctta tatagagata tgagaccct catgggcaaa gcaggtattt gccacataa 360

ccctaattag gggtacttaa caaatataac aaacaaatat cagagaaaag agggcatcac 420  
tagtagaaaa aggctcaaca cctgcgggac gatatatatt 459

<210> 42283  
<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D6

<400> 42283

cgctgttcga ctgcatctcg cttcgctct ccttgctggg aaggggagga ggttgcggtg 60  
ggggggaccg aagcgagatg ccgctgtacg actgcatgct gctgctgaag acgacgggtga 120  
ccagggaggt cctagcggaa ctggtgacgc ggttggcgcg ccgcgcacgc catcgcaacg 180  
gggtcgtcac cgacgtcaag tcatccggcc aggtcagcct cgcctacggc atcatgaagc 240  
tcgacggccg tcaattccag gtccatctta tgcaaatgac catgatgggt ccccttctgt 300  
tcccgcaaga actccactat ctgaacaagg aggacaggct gcttcgctgg ctggtcgtga 360  
agcacagaga caggtatac ggggttgagt tcttgaacgc ggatggcggc agggacgagc 420  
tgagaagttt cagccatggt cacacgaagg gcgactacga 460

<210> 42284  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C2

<400> 42284

cgcacggaga gcaagcaaga aagcaaccac cgcactgcca ctacctaaca atggcccgcg 60  
cctacgtggt tctcgtcgtg ctctcctgg ccgctgtcat cgtggcaccg ttcgcgggag 120  
cgacgcgtgt cgacgtcgtt gagggcaggt ccatggcgtc cgccgacgcg ccggaggccg 180  
ccgcaccatc acccgggcct gactccgcct cgtcaccgga ctctcgtcgt gatgcgcctt 240  
ccagcagcag ctctcggac tagatagcta gccgctcgac gcacgatctc gctctccatc 300  
tacacggcga tcgagttcta gctttgtcgg catgcaatgc aaaattccga ttcttcggga 360  
ataatcaagc accaaaggaa tgtgcttgca tcaactacta ctagtacctt gtttttatat 420



atgttttcctc tcctgacgct ctccgatttt aatc 454

<210> 42285  
<211> 284  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B10

<400> 42285

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tcggacggat acaggggtga ccgttctatg ctattactgc tggactctgt aataacattc 120  
cagctgcttt cgcaccatgg tagttggttt tggtagagac aagtctgtta caattttttt 180  
accttagctt tccaattatt gtgtcgcaat aatcgaatta attgttgctg ggggattttt 240  
tttggggggg ggggtgggtg acatgcattt tgtggctggg atgt 284

<210> 42286  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B11

<400> 42286

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accagtaa at gaatcagctg ttggtccact tggaaaggaa ctatttgaga gagagcaaga 120  
tgatcttctt tctgatctca aagatatccc caagaaagcc tgtgaccgcc ggatcaatga 180  
atgtgttaaa cgtgctagag ctgccaagat ccatgcttat ataataggct atctaaagaa 240  
ggagatgcct acaatgatgg gcaaagcaaa agcccaacaa cgactcatag acaatctgcc 300  
tgatgagttt gcaaagggtc aacgggaata ccatcttccg tcgggagatt ttccttatgt 360  
ggagcacttc aaagaggctt tgagcgggta cagctttgac aagtttgaga aggtgaagcc 420  
caagatgata caggccgtgg atgatat 447

<210> 42287  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B12

<400> 42287

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tgacaagatt acgctggaga cagcaaagct tttgagagaa gattatttgg cacaaaatgc 120  
attcacccca tatgataagt tctgcccatt ctacaaatct gtttggatga tgcgcaacat 180  
tattcacttc aacacattgg caaatcaagc tgtggagcgg gcagctggta ctgacggcca 240  
taagataaca tacagtgtca taaagcatcg ggtgggggat ctattttatc ggctaataatt 300  
ccaaaagttt gaagattct 319

<210> 42288

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B3

<400> 42288

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accgttcgcg ggcgccgcac gcgtggacgt cgtggagggt aggtccatgg cattcgtcga 120  
tgcaccggag gcggctgccg atgctcccg ccttagcccc gactccgcct catccccaga 180  
ctcatcgtca gaggcgcctt tcagcagcag ctctccgac tagacgcaaa aacctcttca 240  
ttctctggaa taactaacag tatatacggt gcaccctgat gatataaaaa catgtacgtg 300  
catcagtgtg tggaatgcga gtggcaaaca catggaatgt gcttgcctaa ttattgggta 360  
tttctttatt tattatatgt ctctctcggg tgttttttat ttttcttaat gcatgtaata 420  
taatttggtt tacccaatat agacaatgtg tgc 453

<210> 42289

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B5

<400> 42289

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ctctgggggtc gtcagattcc ttataccatg atgaagtttg cttcctttga gaccatcggt 120  
gagcttatct acaagcatgc tgtgcctggt ccgaagtctg agtgcagcaa gactaccag 180  
ttgggtatta gctttgctgg tggttacatt gccggtgtct tctgtgctat tgtttctcac 240  
ccggctgaca accttgtgtc ttctctgaac aatgccaaagg gagctacagt gggagatgct 300  
gttaagaagc ttggtctctg ggggtctctc actagaggac ttctctctcg tatcgtcagt 360  
attggtaccc ttactggtgc tcagtgggga atttacgatg cattcaaagt gatgggttga 420  
ctcccaacaa cgggaggtgt tacacct 447

<210> 42290  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B6

<400> 42290

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tgtaggcaga ctttggccta gccgagcaag caaatttctt ccacgacaac agatccatgt 120  
tcaaggaacc aaagaatgaa tgtcagcatt cttatttgca ttggatcgaa ctatactata 180  
ctaacaaggt ggcaatgcct attcgtggcc aatcatatgc tatgctacca ttcaaggcac 240  
aatgccttca catctcgaat gctctactcc tcgcacaggg ctacttcccc cttctcttgt 300  
agaggcaaga ggatgctcca ttggagatgg cagtgctaca ttgtttctgg gcggcgtggt 360  
ggctgcttga acctc 375

<210> 42291  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B7

<400> 42291

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aaggccagcg ccagcgacgg cggagcctac tacgactggt ccccgccga tctgcccatg 120  
ctcggcgttg cctccattgg tgccgccaag ctctgcctca ccgcccggagg tcttgcccta 180

cccagctact ccgactctgc caagatcgcc tacgtcctcc aaggcaaagg tatcttcggc 240  
 gtggttctcc cggaggcgac caaggagaag gtcattctccg tcaaggaagg cgacgcgatg 300  
 gcgctcccct tcggcgctgt cacctgggtg cacaacaacg ccgacgccgc tatctccgac 360  
 ctctggtggtgc tcttcctcgg cgacaccttc acggggccaca agccgggcca gtttacaac 420

<210> 42292

<211> 462

<212> DNA

<213> Zea mays

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<400> 42292

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 cagccatgcc cgctcgcgct cgatggcgac tctcgcgct gccgctcgcg ctcttactcg 120  
 ttgccgggtc ggcgcattgg ctctgaagc cggaggcagc cgcgcgcccc aagccccccg 180  
 tccccaaagg catatcggac ctgagggacg cgatcgtgaa ggggctggga ttccaggccg 240  
 aggggctcaa ggtgtccggg ttcgacgtgc gagacgcgct cgtggggcac gcggtggcgt 300  
 acgagttcga catcgaggtc ggcaggaagg tctaccggg gcgcctgctg gaggacgtca 360  
 gccggtggga ctctcgcgac ctccccatct tccgttccca ggccgacgct gacgatacgg 420  
 cgctcgccga gatccggcgg gccgggaggg ggagcatcgt tg 462

<210> 42293

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B9

<400> 42293

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 tggaagtata ctggcattgg agacattaaa gcgtgtagtt ggtgctggta atcgggctcg 120  
 tgatgctctt gttgcacagg ggcttaaggt tggctctgtt gaagtactcc ttggtattct 180  
 tgattggcgt gttggtggaa gacaggggct ctgtaatcaa atgaagtgga atgaatcaga 240  
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acattgtgct agagttcgtg aagtcctgaa ttctctgat gtatggagtg cttacaaaga 360  
 ccagaagcac gaccttttcc ttccatccaa tgcacaatct tctgctgctg gaattgctgg 420  
 gctcattgag agctcatcat c 441

<210> 42294  
 <211> 460  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C1

<400> 42294

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 cgatgggtccg tctgaccgc agcatgatgc ctgggaaggt tctcgggtgct gccataggtg 120  
 gagctaccct ctcagaaggt aaatcaaaag tacaagagcg ccagcgggtcc aagctatcag 180  
 aagaggctgt ggaggaagct gaagacgccg tctctgcaa ggcctctcg gagcttgagg 240  
 agaaggatcat tgactcctg aaaaaacccg catcaatgcc tgctgataag gaggagggttc 300  
 tgcaggctgc tgtctccgc gttagtgcac tggaagagga gcttgcagct acaaagaaga 360  
 ccttgcagga gactcttgag cgtcagttgg agatcgttgc atacattgag aagaagaaga 420  
 aaagcaagcg tttctttcgt tggtagaagc aaacagcagt 460

<210> 42295  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C10

<400> 42295

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 acagatgcat ggaagcaact ccaagtttgg cttgtgcaaa taaatgtgta ttttgttgga 180  
 gacatcacac aaatcctgtt ggaaagagct ggaaatggaa gatggatgac cctcttgaca 240  
 ttgtgaatgc tgcaattgac cagcatacta aaatgggttaa gcaaataaaa ggcgtaccaa 300  
 gagtaaagcc agaaaaactt gac 323

<210> 42296  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C11

<400> 42296

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 cagtttgggc ctccgttcgc cacgctaagg cttgatttct ccccaaccgt gcctttgccg 180  
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 tcccgcgcgt cggctttgaa caaggcgacc tcgtcggcag acgcccagct ggaccctggt 300  
 ccagataagc ttctggggga gatgcagggg ctgttggtgaa aagtcgacag gatgcttacc 360  
 aggcctcatg ctaatgctcc ttagccccgc caatctggag gttgtgtggt gtaacctatt 420  
 cggtagttag gcaactttgg tgtc 444

<210> 42297  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C12

<400> 42297

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 tagtggcggc caccgccccca caggtagcgg aggcaaagaa gaagagagcg gcggagagcg 180  
 gcgaggcggc ggaagcgaag aagatccagg acgacttctg ctgcagcgtg tgcgaaggca 240  
 agaaggggac ggacctggtc gtgtgcaagg agtcctgcgc tctctcccag cagtccaacc 300  
 tgggtgctgta cggcaggatc cagtgcagg gcaagtgcac cgagcagaaa ggcatacagg 360  
 cgccggccat gaaagtctgc caagaggagt gcgacaa 397

<210> 42298  
 <211> 416

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-009-Q1-K1-B1  
  
 <400> 42298  
  
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 aagcattcac ctcaaaattg gcttgacaaa gttgacaacc cgaggggagg gcgaaaaaat 180  
 agccccacag cttgtcgaaa agccaacatc atgggcaatg atgcaaccaa agaaaaaaaa 240  
 agagtattcc ccatgccctt cacacaaatc gatcagccca tatccatctt tagtcgagga 300  
 ttgtacaaac aatatctcgg gaagagtcag atatcctagc agcctcagcg atcctgagag 360  
 ccatgatgga tttgtatgct gcgagctctg cgtttgtcat gagagactgg gctctg 416

<210> 42299  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-H3  
  
 <400> 42299  
  
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 gagagaacta agacgatggg ggatcatcag tcctggccat gtgtactgac aacatgttgc 180  
 aaaaaaaaaat acaggtcgct ggcaaataaa tctgggcatc tattcatcat cgtcaatgta 240  
 gcgctgctcg ttggctagcc tggcgcgctc aagcatcttg tcgaggctct ccttgagctt 300  
 ctcatcaaac tttaccagct gggtcacaaa cactgcaccg agacccatcc ccaacaaatg 360  
 ctcccatgga tggcgcatgt aggggagctt gcggagagcg tttgagtaca 410

<210> 42300  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-008-Q1-K1-H5

<400> 42300

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gctcctgctg ctgccctgc tgctccagcg atgaatgctg atgcttgcag cttccattct 180  
aaggctttcc aagattgtct caacaactat ggcagcgaga tcagcaagtgc ccagtactac 240  
ctacacatgc tgaacgagtgc ccgacgcggg ggtgtgtctg tctaagctgc ctctgggatt 300  
attcatggat tttctttccg gatgggggta tctcattaat aaggcaccgg ga 352

<210> 42301

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H6

<400> 42301

cctcgtccga cgcgcggtggg gatggagtc taacgtacac cgagaaggtc acgctctggg 60  
cgggtcaagtc tggaggacga gctgctcaca atgcgtcgtc ggcattgaga gaagtcattgg 120  
gctcctacac aaatgcaatc cgccgctcgtc tacgtctcga ccaacggtag gaacaatgcc 180  
ctgacgtgcg ccagatcacc cactgcgatg tgtgcgaacc cctgtgtccg gccgggggtcg 240  
cgctgtctag gcgcatgcc cagccattac cacgaagacg cctgccctca cttttgtctg 300  
catgccgcca tgcattgtact caatgaagaa aaaatatcat gcct 344

<210> 42302

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H7

<400> 42302

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gcctgcagga atttgtggag gcaagacgaa cagctgcact taataatgtt ctttcttgta 120  
tgtgggtctcc ggtaccacct cttgagttaa aaggagtatc tgctgatgca cttaatgcaa 180  
atgctggctt tgttactttc gttgtttacc ctccgcatgt tgagggtaaa aagctagata 240



gaacagtttg gaatttggtg acatttcatg cttatgtaag ctatcatgta aagtgttctg 300  
aaggattcat gcataccagg atgaggcgca gggttgagtc gctgatccag gcgttggacc 360  
gggcgaagtc tgatgcagag aagttgaaga aagtggatca cggatgatct t 411

<210> 42303  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H8

<400> 42303

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ggcgccgcca tccgagcgaa caagccaacc gaccccgctc ccaaggcaat ccgcccgcga 120  
cgtaccacca ccaccgcagg agcgagatgg agatgaagag gatcctcttc gccgtcctcg 180  
tcgtcatcgc cgctcggcc accgcagtgc tggcctccac cgaggccgcc gccgcggggcg 240  
ccccaactgc ctccgagtcg tccgcgagg ctcccgtgg cgctggcgct ggcgctgccg 300  
ctggcgccgc cgctcgggg ccctccgcca gcagcggggc cgcccgc 348

<210> 42304  
<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H9

<400> 42304

cacctacgag aatactgaag gatgcaccca gtggaccatc ccagctgttc ctacggttgg 60  
tgatgctagg gatgactgga agatcatccg cgctctttct gaggttgctg gggctcagct 120  
gccttatgac agcctctcag ctgtgagga ccgatcagc acggttgac caaatctagt 180  
acatgtagac gagagggaga cggccgcaat ctctcgagg gttaagccgc ctgtgaagca 240  
acaagtcagc tcgacaccat tcaaagctgt tgtggagaac ttctacatga ctgatgcaat 300  
caccgagct tcaaagatca tggcccagtg cagtgaacc ttgctgaaga agtgaggttt 360  
tgacacccat caagctaat 379

<210> 42305

<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-009-Q1-K1-A1

<400> 42305

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tttctgtttc agggtaggaa atgatgtccg agagtgaaga gcatggctcg ctccctagaca 120  
agatcaacga caagatcaac gagaagatcc atgagtataa gcactcgtcg tcgtcctcct 180  
cctcttcgga ctgagacgat gacaagaagc ccaagaagtc taagaagaag aagctttttg 240  
gaagaaaaca tccattgcat catgtcctcg gaggaggcaa agccgccgac cttgtgctgt 300  
ggaggaacaa acaggcatct gggagcatct tggtaggggt gaccgtgac tggttactgt 360  
tcgagggcat cggctaccac ctccctacct tcctttgcc a cgcactaatt gngttttotca 420  
ccatctgggt catctgggtcc aatgct 446

<210> 42306  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A10

<400> 42306

cacctttacc accgaagaga gaaacgcgag caaccagcga tcgccccatg gccgccatgg 60  
ctcgttccgt ctccctcgtc gaggcgcccc ttctcctcct ctccctcctc gtctccgccg 120  
cggccagtgc gcggaccgtg ggcgacaccg tgcaggacgc gtgcagcaag acccagttcc 180  
ccaagatctg cgtggacagc ctgcgcccca agccggagag ccagaaggcg acgccgcgca 240  
agctggcgga gctgttcgtg aacatc 266

<210> 42307  
<211> 273  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A11

<400> 42307

gttggaatg acagctctta ttgaggttca tgatgaaaga gagatggaac gtgtgctgaa 60  
gataaatgga gttaagctta ttggtatcaa taaccgaagc cttgagacat ttgttgttga 120  
tacttcgaac accaagatgt tgctcgagaa acatggggat atcatcaagg agaaggggaat 180  
tttggttgtt ggtgaatcac gtctgtttac tccggatgat gttgcttatg ttcaaaatgc 240  
tggcgtttct gctgttttgg ttggggaatt cct 273

<210> 42308  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A12

<400> 42308

ccaagctcaa caacagccag ctgcgcaaaa taatgaagag ccgcagcatg gcatcatcgg 60  
ccgcgctctt ggtgctagcc ctgcgctagc tggcggccac cgccccacag gtagcggagg 120  
caaagaagaa gagagcggcg gagagcggcg aggcggcgga ggcgaagaag atccaggacg 180  
acttctgctc gacgctgtgc gagggcaaga aggggacgga cctggtcgtg tgcaaggagt 240  
cctgcgc 247

<210> 42309  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A5

<400> 42309

caaggaccag atcggcagct tcttctactt cccgtccatc ggcatgcagc gggcggcggt 60  
cggctacggg gccatcagcg tggtcagccg cctcctcatc ccggtcccgt tcgaccagcc 120  
cccgccggag aacgaccacg tggtgctcat cggagactgg tacaccaagg accacgaggt 180  
gctagcccgc cagatcgacg ccggcaaggg cgtgggccgt cccgcgggcg tgctcatcaa 240  
cggcaagggc ggcaaggacc tggaggccgc gcctgccttc accttcgagg ccggcaagac 300  
gtaccgtctc cgcgtctgca acaccggtat caaggcgtcg ctcaacttcc gcatccaggg 360  
ccactacatg aagctggctg agctggaggg ctccacacc ctgcagaaca cgtacgactc 420

gctcgacgtc cacgtcggcc act

443

<210> 42310

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-A6

<400> 42310

gaagtggata cctgaactga agcattatgc acctggcgtg ccaattattc tcgcagggac 60

aaagcttgat cttagagacg acaagcagct ctttgtggac catectggtg ctgtccctat 120

cactactgct cacggagagg agctaataaa gcaaatatgc gtcataact acatcgaatg 180

catctcgaag acccaactaa acgtgaaggg cgtcttccat gcggcgataa aggttgtgct 240

gcagccgct aaggcgaaga agaagaaaaa ggtgcagatg gggtcgtgct ccattttgtg 300

atctaatacat cggtagatga agaaacatgg gcgaacgtgc catggcttta tcatcgctgc 360

gtcttgcttc agtggaaagg catgaatggc cccacccnc tctaggctta ctggcggctc 420

ggctgcagcg agttctcatc tctctgtcga ggcat 455

<210> 42311

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A7

<400> 42311

aatgatcgac ccactcattc gttcataaat ggatacctgt tctttagcag cattcttttt 60

gcgtgccaat tatactcgca ggggcagagc tagatcttat agacgacgag catctctttg 120

tggctcattc tgggtgctgc cttatcacta ctgctcacgg agaggagcta ataaagcaaa 180

tatgcgctcc atactacatc gaatgcatct cgaagacca actaaacgtg atgggcgtct 240

tccatgcac gataaagggt gtgctgcaga cgactaaggc gaataagaat aaacacgtca 300

caatagggca tgctccattc tgcgatctaa tcatagggtg atgaagatac attggcaaaa 360

gtgccatata ttataatct cagcgactct ctttaaccata acggattta 409

<210> 42312  
 <211> 462  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A8

<400> 42312

ctggccgcga cctcaccgac tacctcatga agatcctgac tgaacgcggc tactccttca 60  
 ccaccactgc tgagcgggaa attgtcaggg acatgaagga gaagctcgcc tacattgccc 120  
 tggactacga ccaggagatg gagactgcca agaccagctc ttctgttgag aagagctacg 180  
 agctgcctga cggacaggtc atcaccattg gtgctgagcg cttccgctgc cctgaggtcc 240  
 tcttcagcc atccttcatt gggatggaag ctgctggtat ccacgagacc acctacaact 300  
 ccatcatgaa gtgcgacgtg gatattagga aggatctgta tggcaacatc gtccctctccg 360  
 gtggtaccac tatgttcctt ggcattgctg acaggatgag caaggaaatc accgccctgg 420  
 ctccatgacg catgaagatc aagggtggtg ctccctcaga aa 462

<210> 42313  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H11

<400> 42313

acgaccgacg cgtgcgcctc gtccgacgcg cgtggggatg gggacctaac gctaccttcc 60  
 ttcagcgagc gcctggggac cgcggcgggc gcgctccagt gcgccgccga gccgagtagc 120  
 ccggtgcagg accctgtcac ccatctctac acatccacga cgagcctaaa cgacgagggg 180  
 cccaagtacg acctcgagct atccaagaaa gaccaccgga agcatgggtt ctgggggctt 240  
 gtggctcaga aagccaaagt catgctggac gaaaacggca caccacgccc tcaggctaag 300  
 acctctgaat cgctctggtc ctacgatcgg gtccaaggat cgttgggagg caggctggac 360  
 atcagagggg agatcaagga cgttcttcag caggagggcc ttgctgtggt ggccgacagc 420  
 acgacgcccg gcaccag 437

<210> 42314

<211> 236 .  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A9

<400> 42314

cggacgcgtg ggggtcaacct ttcaacttct gcttgtgttt tcatgactgc tattgggctg 60  
gactatataa cttaacaaga aaactacctt tatacttctt tttctggatt ttatgggggt 120  
ctatcaagat tgggtggtggg cattaaacaa cttttacctg atcaagaagc ttaatctttt 180  
tgtgctaaaa attaaggcaa agggaattcc atctctggtg gcatggatat ccattc 236

<210> 42315  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F8

<400> 42315

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ggctgggagg cgctcgacac cgttggccat cctcctcacc ggggccttcg tccccatctc 120  
cttcgtcggt cgtccaatct ttgacacgca cagatccgct gccgtggagc tcttcaactt 180  
ctccgccgac ggatccttcg acgagttaaa gcaagaggac ccctgtgcat taaagaataa 240  
gcacacaata gatcttccta aacactgaac attgccttat atgcttataa tatcaccaac 300  
cttacctttt aagttataga atgtttactt tgtatggtac actccgtata attatatatg 360  
tacgcctggt tatttctttt ggagatagtt tgtgtacggt agcagttcag gtctaaat 418

<210> 42316  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F9

<400> 42316

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agcaacagca ggccagggca ggcaggcgca agaaacttcc cccacctcca cctcctcctc 120

gccttccgcc tttatttctt ctctgtctct tctcgggtcc tatctctct cctgtctccgc 180  
cttttctctea tcgggtccctc ctccccctatc ctctgtctct catccccctgc gctccgtttc 240  
ttcgggggttt gaggcgagtg atctaggcca tggcgggccac caagaaaacc aagatcgtct 300  
tggcccagcc ggcggttggg gctccgacgt cgcgggtgcc gttcttttct cgcgcgccc 360  
gcccgggtccg aggcgcggg gacgaggcgg cgcac 395

<210> 42317  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G1

<400> 42317

cgttgatgac acagctgtga aggtggttga tattgttgac acattccgtc tacaggagcg 60  
gcgctccttt tgacaagaaa tcatttgtgt cttacatcaa aaaatacatc aagaatctca 120  
ctgctgtggt ggagccagag aaagcggatg agttcaaaaa ggggtgtcgag ggtgcaacca 180  
agtttctct tagcaagctg aaggacctcc aattttttgt tggtgagtcc atgaaggatg 240  
atgcgtctgt ggtattcgcc tattacaagg atggtgccac taatccgaca ttcctctatt 300  
tctctcatgg tcttaaggag atcaagtgt aagcgtgccc cgaaattagt tacccatgtt 360  
gggtactatc tatgtactat tattatatcc aaaacta 397

<210> 42318  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G10

<400> 42318

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gtatggagga gcgcaggctg gagctatcgc tgcagatgga gaaggaacgg atggaatcgg 180  
agatgaaacg caccagacg atgctggacg cccagcagct cttcctcgag gccttcctcg 240  
gtaagcaact gcagcacaag aaggcctatg tctccccctc ctctgccgca atggaagagg 300

actgatcgat cgatgtatcc cggctgctct ctgtcaaact tgtgttc

347

<210> 42319

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G11

<400> 42319

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tggttctgtg cctgctgctg gcgaccgggc cgcaggaggc cgccggcgcc gaggggatgc 120

tgtcgtatga taagttgctc agctgcaagg tgctgggcaa ctgcgacaag aacaggggcc 180

ccggggccac ccgcccgggg aagcccgtaa acaagtacac ccgcggtgc agcccgtga 240

cccggtgccg cggcgggtga tcatatctcc ggtggttctg gtcgatgtgc gcgcaacgtc 300

acgcgctgac aggcaccagc gccggccggc ccctgagggc gggggcaaag ggggcaaccg 360

ccctggtggg cctcgtaatc tggaggacct caattccgtg tacacattag tatactgcat 420

atgagttttt gcatgtgtat tacgtgatt 449

<210> 42320

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G2

<400> 42320

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tacaaggggt agaaggacgt ggaagacgtg caggtgacgg ggtgcacgat cgccggcacc 120

acgaacggcc tgcgcatcaa gtcgtacgag gactccaagt cgtcgctcaa ggccagcaag 180

ttcctgtacg agggcatcac catggacaat gtctcctacc ccatcatcat cgaccagaag 240

tactgcccc acaacatctg cgtcaagtcc ggcgcctcca aggtggccgt caacgacgtc 300

gtcttcaaga acatccacgg cacctcaac acgccggagg ccatcacgct caactgcgcc 360

aacaacctgc catgccaggc cgtgcagctc gtcaacgtcg acatcaagta caatggatcc 420

ggcaacaag 429



<210> 42321  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-G5  
  
 <400> 42321

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 gtgtttccgg ggccatccac cactggaagc tacatcgtgg ttcttattca tgagccacgt 120  
 tcacggcttt cgtttgcacg accgggagat gacaagtgga cctcggttgg acaaggatc 180  
 ggatataaag actgcacata tgtggatggg cttttgtata cagtggattg gactggagaa 240  
 attgatgctt ttgattttac cgcacccct gttaaaatga cagtaattat ggacagtctg 300  
 aagtatcctc catgtgaaaa cctgtacatt attcaggctc catggggtga tctgctgcat 360  
 gtttggagga ctattgacgt tccacccaat gctccatcgt gggaccctga aaagtgcctg 420  
 gcagaaaccg taaaaataca agtgcataaa gtggacttgg a 461

<210> 42322  
 <211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-008-Q1-K1-G6  
  
 <400> 42322

actagtgtta taatagggtgc agaaggcctc atatgtagtg aaggcgtatg cgttgtaaga 60  
 gcggcttgac cgcgtattat gacatctgga taacaagcga ggccttggca aactttatga 120  
 tgtaaacagc aagcaacgtt gttcatccat tgggatgcag ttacatggt gaataatatt 180  
 cactgcaatt tctcttcaaa tgaaccaaag aggggtaata gttggtgctc 230

<210> 42323  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-008-Q1-K1-G7  
  
 <400> 42323

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gcaaaaacgt tccaagactt gttccaggat ggactaagcc catctgcatt ggaaggcatg 120  
ccttcggtga tcaataccga gctaccgatg cagttctgaa ggggcctggg aagctgaagc 180  
tagtttttga gggaaaagaa gaacagattg atctggaggt attcaacttc actggtgctg 240  
gaggagttgc cttgtctatg tacaacaccg acgagtcaat ccgagctttt gctgaagctt 300  
ctatgacaac tgcttatgag aagaaatggc cactctacct tagcaccaaa aacacaatcc 360  
tgaaaaaata tgatggcagg tttaaggaca t 391

<210> 42324

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G9

<400> 42324

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gaacaagctt gttgctcttg ttcaccgcc taatgaatcc tttttccttg ctccccaggc 120  
agataaagtt actatttgt atccaatgag attccaggac tccattgata ttgttttagc 180  
aacttccttc ctgcaggaat ttgtggaggc aagacgaaca gctgcactta ataatgttcc 240  
ttcttgtatg tggctcctcg taccacctct tgagttaaaa ggagtatctg ctgatgcact 300  
taatgcaa at gctggctttg ttactttcgt tgtttaccct cggcatgttg agggtaaaaa 360  
gctagataga acagtttga atttgttgac atttcatgct tatgtaagct atcatgtaaa 420  
gtgttctgaa 430

<210> 42325

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H1

<400> 42325

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tgggttagtc atttctcccg gccaggaaga tgacaagaag ccccttgtgc aggatgagcc 120

aatagtagtg tctcccatcc agaagaataa caataagtat gttgatcagg agaagtcctt 180  
 tcagcaggag aagcaaatca tctctcccg acagaaagat gataagaaga gcagcaagggt 240  
 gggacctgac tcagcatgta atcatgtgca acagaagaaa gtgaaggcta ctgtatctac 300  
 cggccgtgct gctaatactc atgtttctag ttccaggcct cgctctgttt ttatcccca 360  
 agcacattgg ccagccagc caattgttga tcggtttgcg catatacctg agcacctgat 420

<210> 42326  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-H10

<400> 42326

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 cgtcctctag cgaccgacca acgcgcgag cgaagatgtc gtggcagacg tacgtggacg 120  
 agcacctgat gtgcgagatc gagggccacc acctcacgtc ggcggccatc gtcggccacg 180  
 acggcgccac ctgggctcag agcacccggt tccccgagtt caagcccag gagatggctg 240  
 ccatcatgaa ggatttcgac gagccggggc acctcgcccc gaccggcctg atcctgggag 300  
 gcaccaagta catggtcatc caaggcgaac ctggagctgt catccgtggc aagaaggcat 360  
 ccgngggcat cactgtgaag aanacagggc agtcactcat cattggcatc tacgacgagc 420  
 cccatgactc cgggca 436

<210> 42327  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-F7

<400> 42327

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 ggactgaaga tggacttatc atggctgctc gccacaagaa gtacaaacac atccagggtg 180

tccaattcca cccggagagc atcatcacc c tgaaggcaa gaaaatcatc ctcaactttg 240  
 tcagattcat tgaggaactg gagaagcagc gttcgtaggg gaggtagacg cgacaggtgg 300  
 tttcatttca tagatcagac ggaagcagag acaaggcgct taaagctgcg ccaggttccg 360  
 gggctggcag ttgaagcata gctaggaaac agctntccct ctcttaatnc gtttgtgtcg 420  
 tggtgacata atct 434

<210> 42328

<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-E4

<400> 42328

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 tttgccaccg atgaaccctc cgccggggcc agaggcatca ccgtcgaaac caccatctac 120  
 atcgccagca gcatcaccat cggaatcacc accagcagca tcgccaccag aatcgccgctc 180  
 gacaccacca ccagagtccg tcgactacac cgccgacacc agcagcagca ccaccgaaat 240  
 caccgtctga tccaccacca gctacgccac caaatcatc atctgatcca ccgtcgacac 300  
 cagcagctac accaccggcg actccatccc catcatctta atcacgaagg atatttcaaa 360  
 agcagtagta gtttagtcaa attaaatatg cgttttagga ttctagttga tatgcgtcca 420  
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<210> 42329

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E5

<400> 42329

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 ataccgtgca ggtgggtgtg aggaaggtgc ggaataaagt ggttgggcaa ataggagatg 120  
 ctttctgac atatgaccgg gttactggtg aattcaagga tgctggtaag gccactacag 180

cagccagtgc aaaagcggca aaacagtcac gcaaagaggc atataagata ccatttcaac 240  
 atgctgctca agacggtgag aatagttttg gtctctgact gcataagaaa gacatgttcc 300  
 tgctgatttg atgtacctgt atcaatcaac gcaagtgaga tttcacgatt gtttctgggg 360  
 a 361

<210> 42330  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 42330

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 ccatgtggtc gtcgatgccg gcagacgttt ttatggttgt ggcgttggtg ttcttggtga 120  
 gcggcgcatg gtgcggctct tccaaagtcc cccagggcaa gaacatcacg gccacctatg 180  
 gcaaggactg gctggacgct aaagcgacat ggtatggcaa gccgacgggt gccgggtccc 240  
 atgacaacgg tggcggtgct gggtacaagg acttgaacaa gccctccttc aatagcatgg 300  
 gcgcatggcg caacattccc atcttcaagg atggtctggg ttgtgggtcc tgcttcgaga 360  
 tcaagtgcga taagcctgtg gagtgtcctt gcaagcccgt ggttgtgcac ataacggaca 420  
 ttaactttta gcctatttct gcgttcctct tttt 454

<210> 42331  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-E7  
 <400> 42331

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 gacatgttat gatgccatt atattattct gttgtcggcc aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaanggg gggggccttt ttaaaggacc aaagttaact tccccgtctt tcaaaaaaaaa 300  
aacctttttt aaagtgaac aaaaataaaa ttaacggccc cggttttaaa aacgtaggaa 360  
tgggaaaa 368

<210> 42332  
<211> 424  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-008-Q1-K1-E9  
  
<400> 42332

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gaggatctag taatggcaga gaggtactc atgaaacacc tcgatgcacc aggcaggtgg 120  
ctggcggaga agcatcggag gacgttgatg aacaagtatt gtggacggta cctgcggggac 180  
aagcacctgc agcactacat tatctacggg gagacagtgc aagacagatt cgaacacaat 240  
cgacgtctaa ggaatccttc aacgacctct gtccagcaag cgctacatgg gcttgcatatc 300  
tgtgtgtatg gcaaacctga cgtgcggcgt ttgatgttcg aggtgtttga ctctgaacag 360  
gtccagccta aagcagtctg aggatcttct ccattgggtac cgatgctaga cgtgctgaat 420  
gctg 424

<210> 42333  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-008-Q1-K1-F1  
  
<400> 42333

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agcgacgccc tggcgctcat cgagaagggg tcatcgctcc tctccgtgct aaagggcggc 120  
tcgaaacgac gggtgctcga ggaggaggga gaaccggcgc aagccggggc tgcactcgac 180  
aaggacggca tcccggagtg ggtgcccgc acgtgagcga ggtgctcaa gggcggcggc 240  
ttcaagagca cactcacgcc aaatgtggtg gtggcgaagg acggcagcgg caagttcaag 300  
accatcaacg aggcgctcgc cgccatgcc aagacctacg acggaagata cgtgatccaa 360

gtgaaggagg gagtgtacga agagtacgtg accatcacca agactatgaa gaacgt 416

<210> 42334

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-F10

<400> 42334

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atcttgtcag aagagtttgg ttgggacaag gatctcgcca agaaaatctg gtgctttggc 120

cctgagaccc ttggacccaa catggtgggt gatatgtgta agggagtcca gtatttgaat 180

gaaatcaagg attctgtggt tgctggattc cagtgggcat caaaagaagg tgctttggcc 240

gaagaaaaca tgagagccat ttgctttgaa gtatgtgatg ttgttctgca cgctgatgct 300

atccacagag gaggtggtca aatcatccct actgccaaga gagtcttcta tgcttnccag 360

attact 366

<210> 42335

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-F11

<400> 42335

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gcaactgctg acgctgaagt aactgcgata agagaggctt gcaaaaagct tgggaaaatt 120

gagctgtcgg attgtgaaat ttatgcatcc tgtgagccat gcccaatgtg ttttgggtgct 180

gttcatttat cccgattaa gaggctggtg tatggagcca aggcagaagc tgcaattgcc 240

attggatttg atgatttcat tgctgatgct ctgagaggaa ctgggtacta tcagaaggcc 300

aacatggaga taaagcaggc agatggaaat ggagccatga ttgctgaaca agtatttgag 360

aagactaaag agaagttcca aatgtattga accgtggaaa atactggtgg gatganttaa 420

ca 422

<210> 42336  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F12

<400> 42336

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gaacacctat cttctcgctg gatgctgcaa cgacgagcta acctaccgct acaagggcaa 120  
gaccgtcatg acccaagaag agcgatacga atccctgcgg cacttgaagt gggttgatga 180  
ggtcattcct gatgcaccgt gggttctcac acaggagttt attgataagc atcagattga 240  
ctatgttgct catgatgcgc tgccttatgc tgatactagc ggaacagcaa atgatgtcta 300  
tgaatttggt aaaaaagatg gaaaattcaa ggaaacaaaa aggacagacg gggtttctac 360  
ttcagatctc ataatgagga tcttgaagga ctattaccag tatgtcatg 409

<210> 42337  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F4

<400> 42337

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tatgagccta tcgcggcgta ccacttcgat ttagcaggca cggcgttcgg cgccatggcc 120  
aagaagggcg aggaggagaa gctgcgcaag gcgggcatca tcgacatgca gttccgaagg 180  
gttaagtgca agtacgactc caaggtcacc ttccaccttg aaaaggggtg cggccccaac 240  
tacctggcgc tgctggtaaa gtacgtcgat ggcgacggtg acattgtggc agtggacgtc 300  
aaggagaagg gctctgacac gtacgagccc ctgaagcact cctggggcgc catctggagg 360  
aaggacagcg a 371

<210> 42338  
<211> 322  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3075-008-Q1-K1-F6

<400> 42338

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gggtagccag cctttccatg ttgggctaaa ttttacacgt gcacacctga aagacacttt 120  
gctctaagag agagtgaaaa aattcaccac ggctttgatg atgacaatta tgaccactct 180  
taacaacagt cattctacat ggttggagga atagaggagg tcatcgccaa ggcagagaag 240  
attgccaaagg aatctgcac ataaggggtc tacaggcaac gcaaaattta acttttggag 300  
gtcaacgtga tgtgcttttt at 322

<210> 42339

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E2

<400> 42339

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cgaggctgag acgccggggc atggtcggcg cgcagtgcg gcggccggcg gctcggttcg 120  
tgcgtagctg cccagcattc ttgcccctgt tgagtcacg gctcgtcgct cgctcgcgcc 180  
cccgcgcgtc gccccgcgtc cacagggtcg ccgccacggg gaggcgcaga gggaaaagga 240  
agatgagctg ctttccgtgc ttccggggcg gaaagggcaa caacgacgac gccgacgcgg 300  
agagcccggg cgacgcggcc ccggcgtcta acatgacgcc agccgcgatg gtgcaggcgc 360  
ccgcgcgta c 371

<210> 42340

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C8

<400> 42340

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gtagttgtag atgatgaatt ataaacacat atgactgagc tcaaagttgt ttaatcatca 120

tctgttgcca aatgaggaag acaattgggtg tcttgaagct gtgttttcga ctgtgtctaa 180  
 agcgtaaattg taacgtatat tgtgtcttcg cctatgctta agacattgga ctagttgatt 240  
 ggtcaattta atttattaaa tgttttgatt ggtgtaata atataataag tcgtgcatgc 300  
 cgcatgacta ggctttcagt ctttcactta 330

<210> 42341  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-008-Q1-K1-C9  
 <400> 42341

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 ggcgtectect tgataccttg cctcgcgagt gctctcgggtg agctactttg ttttgattta 120  
 tcaggaaatc cgtttgcttc atgttatgca ggctcagatc tgattgctgg attcggcatc 180  
 ttacggggctt gaatagagct aggactggga gaaaacaaca aaccgcggtt ggatcctgta 240  
 tcgggttagtc cttgccttca aggttcatgt tgttttgttt tgggtggtcga gcatcgcattg 300  
 ttctgcttct ggttccagat ctggagaaat ttctaagtcg tcgtcgtcgt cgctggttcgg 360  
 ttccggagcgg atctgaggcg acgatggctg gagggcggcg gatctcttgt tctgcagtc 420  
 tgcttcacct cgatggatga tgtctctgcg ctgat 455

<210> 42342  
 <211> 241  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-D1  
 <400> 42342

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 ccgccgacgt accaccgcgc caaccgcgaga gaaagatgga gatgatcaag aggatcctca 120  
 tcgccgcgct cctcgtagtc gccgtctcgg gcaccggagt gctggccttc aacgaggccg 180  
 ccgccgcgcg agccccaacc gtctacgagt catttggtga cggcgaagcc cccgctggcg 240  
 c 241

<210> 42343  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D10

<400> 42343

cccacgcgta ctaaaataat gaagagccgt agtatggcat gatcggccgc gctcttgggg 60  
 ctagccctcg cactagtggg ggtcacgcgc ccacatgtag cgtaggtaaa gaagaagaga 120  
 gcggccgtta gcggcgaggt gtgggacgcg aagaacatcc aggacgactt gtgctcgacg 180  
 ctgtgcgagg gcaacaagga gaccgacctg gacgtgtgca aagagtgtg cgctctctac 240  
 gaggaatcaa cctgttgctg tactgcagga tccaacaca 279

<210> 42344  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D11

<400> 42344

cactgatcca agacaaaaca tggctgtgaa tgtgagcaac atgtggtcgt cgatgtaggc 60  
 acatgtggcg atggctaagg cgttggtggt cttggtgagc ggcgccctcg gcggtcctcc 120  
 caaggtcccc ctggttaagat catcacgacc acctatggca aggactggct ggacgctaaa 180  
 gcgacatggt atggcaagcc gacgggccc ggtctcgacg acaacggcgg cggtatggg 240  
 tacaaggacg tgaacaagcc ccccttcaat agcatgggtg catgcggcaa catccccatc 300  
 ttcaaggatg gtctggggtg taggccctgc ttcaagatca agtgcaataa gcctgcagag 360  
 tgctccagca agcccatggt ggtgcacatc acggacatga actatgagcc tatcgcggtg 420  
 tacca 425

<210> 42345  
 <211> 345  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-D2

<400> 42345

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atgtgctttt tatcctgtgt tatcaagaac ttacgtgcag gagaccctgc cctgcagaag 120  
gatgtttctc tctccgtcc cccaccccca cccccaaaa taaggattcg cagtgcatt 180  
ttaatttggg ttactgccct ttgaggaaga attacctttt ttgatgaggt gaaactataa 240  
ccttggttaat tctcaaacaa atactcttct cccatgttca tagccattat gaggtgcct 300  
gttcaatttn naaaaaaaaa aaaaaaaaaa aaannnnnn ntnna 345

<210> 42346

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D4

<400> 42346

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gcgcccgtcg tgcgggccat caccgacgcc gtcggcggca cccggatacc tccaggaggc 120  
gtgcaacaag acgctgttcc ccaaggtgtg catgcacgct ctcaaggaca acccaaagtg 180  
ccaggcggag acggctgtca ccccgcgccg gctggccgag ctgctcgtgt acgtgtcggg 240  
cgaggtgggc atgaccgtgg ccgcctttga ccaccacgag ctcaacgcca tcaacgacga 300  
cgacgttctg tacaagtga tagacacctg cttcgaggac attgaggaag acgtggcgca 360

<210> 42347

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D6

<400> 42347

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gggggccc atcgtcggcc acgacggcgc cacctgggct cagagcaccg cgttccccga 120  
gttcaagccc gaggagatgg ctgccatcat gaaggatttc gacgagccgg ggcacctcgc 180

cccgaccggc ctgatcctgg gaggcaccaa gtacatggtc atccaaggcg aacctggagc 240  
 tgtcatccgt ggcaagaagg gatccggggg catcactgtg aagaaaacag ggcagtcact 300  
 catcattggc atctacgacg agcccatgac tcccgggcag tgcaacctgg tggaggaaag 360  
 gctgggagac tacctgctcg aacaggggat gtaacaacaa ccccttcccc tggaatgcat 420  
 gttgatgatg 430

<210> 42348  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D7

<400> 42348

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 gcgtaggacc cccgccgcta cagagccctc gtccgtcgca cttcgccgcc gcgtcggagt 180  
 catccagctc gtcgacgcct ggcggggaga tccccagtgc gaggggaacc tccacgacgg 240  
 gaccttcctt cctgatacag gaaggcaggg ttcatgagcg gcggcacgcc tgcagcaagc 300  
 agtagcctgc gggcagcact ctcatactgt gtgaggcaag tccgtgccta tgactaccac 360  
 cactacctct gccttctcca cctggccccg gccatgcgca aggccgcgtt cacctttcgc 420  
 gccttcaaca tcgagacagc aagggccatg gatgt 455

<210> 42349  
 <211> 142  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D8

<400> 42349

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 gacccagcg tatagtataa cgctctcccc aaactccaag agggaagaca actccaaagt 120  
 acaatgcaat cttgattctg tc 142

<210> 42350

<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D9

<400> 42350

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agcgtgcata tatatatcc tgccaagata aaggtaatgg agtcgtcacg caggttccag 120  
ccggccgtca tctgtcttct cctgtcatt gtgtccaccg atatggcaca ggcaagggaa 180  
tgcgagaagt acagtgagcg atttggtggg gcatgcatga tcgcagacaa ctgcgccaat 240  
gtgtgccgcg gtgagggctt cttggccggc aggtgcagca cttccgccg ccgctgcac 300  
tgcactaggc agtgctaaac aagatcgctc gatcgctcgc catgcatcga caacctattc 360  
ttaataacgt tcattatctc gttcttattt atgacgaatg tcatgtatgt tctggtgact 420  
gtcatgtata ttctgatgac tgtcatgt 448

<210> 42351  
<211> 382  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E1

<400> 42351

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atcaaacata tcttgttgga gttaaatatt atttatagag aagctacgcc agagcgacaa 120  
tagaactggt agtatggttg gtgtttgtat atactatcgt cgcgcgcct cctcctccgt 180  
catcgtcoga cccaccgtc caacggcacg gcgccggcc gcgacgacgt caatgcatgg 240  
tgtgcgatcg agccaggcca gctgcgtgcc ccctgccag ccagccagca ggcagatcag 300  
accgccggcc gccgccttgg cgctcagttc atgctgcggg cgcagcgcgt gatggcggag 360  
cagccgcggc ggtaggggtt gg 382

<210> 42352  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E10

<400> 42352

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gggtggctaag cacaacacca aggacgactg ctggctcgtc atcggcggca aggtgtacaa 180  
tgtgaccaag tttctggagg atcaccctgg aggcgatgat gttctgctgt cttccactgc 240  
caaggatgct accgatgatt tcgaagatgt ggggcacagc agcactgccc gtgcaatgat 300  
ggacgagtac ttagtgggtg agattgatgc agccacgata cccaccaagg tgaagtacac 360  
gccccccaag cagccgcatt acaaccagga c 391

<210> 42353

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B4

<400> 42353

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gccgtcatcc aaggtgatca tcaagttcct gacggtcattg cagcgccatg gctacattgg 120  
tgagtccgag tacgtggatg accacagagc tgggaagatc gtggtggagc tgaatggaag 180  
actgaataaa tgtggtgtta ttagccacag ttttgatgta ggtgttaagg agatcgaggg 240  
atggacggcg aggcttcttc catctcgcca gtttggttac atcgtcctaa caacttctgc 300  
tggaattatg gaccatgagg agggccgccc taagaatgtt ggtggcaagg ttctaggttt 360  
cttttattga aaatgtgttt ttttgagcca cagatgcgtt caagaac 407

<210> 42354

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B5

<400> 42354

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agggcggaact taaatggata cettgcatac cacactgggc agccccctgga taagatcaac 120  
 gtagatactg accgtgacta cttcatgagc gcgaaagaag caaaggagta tggccttatt 180  
 gatggagtaa tcatgaatcc cctcaaggcc cttcaaccac ttccagcttc cagttagtca 240  
 tgaagtgtgc tagaactccg tcaaacattt ttgttgatc aatgtgtatg ttggaagccc 300  
 tggctacgta atattctacg tccaaatgca tcaaagattg tacaaaacaa gatatgcggt 360  
 taggatatcc atccttggtg atggatattg gaactaaact aacctaacc ttagagttaa 420  
 attgtcaact ctatttttct aagg 444

<210> 42355

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B6

<400> 42355

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 cttgcacttg acggtgccac cgccgcgaga cggcgcgagg cctcggcgcc tgtggcggtg 180  
 ccggccgcgc cgtggctgaa gaaggcggcg gtccggtgcc agcgagccgt cggtgccgct 240  
 gttgccgaga agaaggatgc gccggtatcg gttgcgcagg agagaagcgg cgacgggggc 300  
 gcggcgccgg agctcacctg cgtgatgaag ttcggcgggt cgtcagtggc ctccggccgag 360  
 cggtatgcggg aggtggcaga cctcaccctc agcttccccg aggagcacc cgctcgtcgtg 420  
 ctctcagcga tgggaa 436

<210> 42356

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-B7

<400> 42356

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 cgtgatggac aaatctacgg atgtcgttga cgcgattgct aggctgtcct acttctacaa 120



gcatgagagt tgtgggcagt gcacgccttg ccgagagggc acaccctggc tctggatgat 180  
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cacgaagcaa atcgaagggc atactatctg tgcgcttggg gatgctgogg catggcctgt 300  
gcaggggctt atcaggcact tcaggccaga gttggagcgg aggatccgg agcgagcttg 360  
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<210> 42357  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B8

<400> 42357

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caaatgggct ccttttgtcc aaagagagct ctaaacagca aactagcatc cacaaccttg 180  
acaagtgtaa tggagggcat ttgcatgtat cagatgaaac attttctgaa gctgctccta 240  
agacacataa atcagcagag gaccatgatg atagatccaa acctccactt ataagaggtc 300  
gatttagagt tatacctggg catgttgact caaaggctca accacctggc ctacagaagt 360  
gtcacagcat gcagacaatt tctgccttc catcattaag tataccctct tccgcagaaa 420  
gtgcatc 427

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<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B9

<400> 42358

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ggtcctcctg gtggcggcga cggcgctcgt gccacggcc accgcgtacg gctgctacga 180

cgactgctac gagcgggtgcg ccaacggcaa gaaggacgac cccgcctgca ccaagatgtg 240  
 caaccaggcg tgcggcagca ccgacaaggg cgccgccgcc ggcgcgccgg cttgatcgac 300  
 ccgggcttca tcggcgcgcg ggctcagctc gatatcagca tcatatacaa tcgctgctcc 360  
 gtcgctcacg tcagcccatg catgac 387

<210> 42359  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-C1

<400> 42359

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 cggcgggcaaa aagaagcccc acgtcaacca cggcaagttt aaggcggagc cgtggacgga 180  
 cgggcacgcy acgtactacg gcggggcgga cgggttaact gacaccacgg acggcggcg 240  
 gtgaggctac aaggcgagc tggggaaaga ctacggcacc ctgacggcgg ccgtgggccc 300  
 gtcgctgtac accaacggca ccgggtgcyg cgcgctgctat gagctcaagg gcccacagg 360  
 caccgtggtg gtgacggcca ccaacgaggg cccgccgctc gtgagcgggc agaaaggcga 420  
 gca 423

<210> 42360  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C10

<400> 42360

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 gcaagggaaa ccttgacggg cagggcccag ccgtgtggag caagaactcc tgcaccaaga 180  
 agtacgactg caagatcctt cccaactcgc tggatgatga cttcgtgaac aacggggagg 240

tgtccggggt cacgtgctc aactccaagt tcttccacat gaacatgtac cggtgcaagg 300  
 acatgctaata caaggacgtg accgtgacgg cgcccgggga cagccccaac acggatggca 360  
 tccacatggg cgactcatcc gggatcacga tcaccaacac cgtcattggc g 411

<210> 42361  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C11

<400> 42361

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 ggtgccaccc ggccccaaca tcaccaccaa ctacaacggc aagtgggtca ccgctagggc 180  
 cacctggtac ggtcagccca acggtgccgg cgctcctgac aacggcgggtg cgtgcgggat 240  
 caagaacgtg aacctgccac cctacagcgg catgacggcg tgcggcaacg tccccatctt 300  
 caaggacggc aagggctgcg gctcatgcta cgaggtgaga tgcaaggaaa aacctgagtg 360  
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<210> 42362  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C12

<400> 42362

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 caccggccacc tatggaaagg actggctgaa ccctaaacca acatggattg gaaggccacc 180  
 aggtcccggg cccaacaata ccggggggcg ttgcgggttc aaggacgtga acaagcccc 240  
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<210> 42363  
 <211> 401  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C3

<400> 42363

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tgacagattc catgatctgt ttccagcgaa aacaaaggtc aagtgttttt ctgatgctgg 120

atattttttc gatgggaagg atatctccgg gaactttttac gctaggtcaa tctataagag 180

cgttgtgaat ctacatggat cagccaaaaa ttaccagct tcatgtacct caaagccaaa 240

gcaatcacct gagctgtgta tgttcccaca gtatgtgttc ccgacaatgc gcacaccatt 300

gttcatactt aatgcagcct acgattcgtg gcaggtcaag aacgtcctag cacctagtcc 360

agctgatccg aagaagactt gggcccaatg caagcttgac a 401

<210> 42364

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C6

<400> 42364

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cgggtactacc tcggggagca gttctacatc aacgtcatct cgccggcgcc ggccctttgc 120

caacagtaca acatgccccca caacccccctt cgcttcggca agggcctggg gcttccccctt 180

ccgccattct acgcccccg cgcgtaaaaa ccaccaaggc gccgctttca cctcgtgttc 240

tgaccattca gtctaactaa tccattcctg tgctgctcgg cgaaataaaa tcatcaaaaa 300

gaacaaagac caaggaagcc tatggaaggg agaagggacc tttggtgggg gtgagccaaa 360

tgagaacgca cggatatatc tattgatgta atcttg 396

<210> 42365

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-B2

<400> 42365

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gtgatccagt ctctccggc ctccgcggcc gtgggtgcac ggagcctgac agccgatcag 180  
ccggccgcga gcccgccgcg aggacaaagg aggcgcgcg accggagcct ggagactgga 240  
gagccagccg ccagagcgga ggtatcctgt tgccggcttg ccgctgttgg atctagcggc 300  
caggagggcg atttggtgcc gttgccgtac tgccgtgaac caagagtgaac ttgctgtggc 360  
gctcggcgat ggggcccata ttgccataca ctataagc 398

<210> 42366  
<211> 468  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ccatcatgaa gtgcgatgac gacatcagga aggacttgta tggtaacatt gtgctcagtg 180  
gtggcagcag catgttccct ggtattgcg accgtatgag caaggagatc actgcccttg 240  
cgccgagcag catgaaaatc aagggtggtg caccgcctga gaggaaatac agtgtctgga 300  
taggaggatc catccttgcc tccctgagca ccttccaaca gatgtggatc tcaaaggctg 360  
agtatgacga gtcatgacct gngattgttc atcggaagtg cttctaagct ctgggtcccn 420  
cttcggctcc catttaatta ttccttgagt gtttttcata taagctac 468

<210> 42367  
<211> 424  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-007-Q1-K1-H9  
<400> 42367

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 gaaaaagatt gctgatgttc tcacaatgat ggaaaaggag gatgtgaaac catctatctt 180  
 tacttacaag gtccttgtag acgccaaggg aatgggttga gatgtagaag ctatggagaa 240  
 agtgggtgaa tcaatggtga aagatggcat tgagccagat ctcacgttta atgctacaat 300  
 tgccagacag tacatattta atggtcagcg tgataaagca gagacacttt tggagtcaat 360  
 ggagggtgat gatatccaga aaaaccgtgc tgcttgagcgt ttctattacc tttatatgct 420  
 ttcc 424

<210> 42368  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-008-Q1-K1-A1  
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 tggcggcccg ttccaacatt atcaccaact actaacggga gtggcttacc gccagggcca 180  
 cctggtacgg tcagaccaac ggtgcggggc ctctgacaa cagcgggtgcg tgcgggatca 240  
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<210> 42369  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-A11  
 <400> 42369

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 tcccgtgtca ggcggaagtt caagggatgc accttgatgc ctaacattgg atatggctct 180  
 gacaagaaga ccaggcacta tcttcccaac aagttaaga agtttgctgt gcacaatgtt 240  
 tctgagctgg agttgcttat gatgcacaac aggacatact gtgctgaaat cgcacacaac 300

gtgtccacta agaagcgcaa ggaaatcgtg gagcgagctg ctcagcttga cattgtggtc 360  
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<210> 42370  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-A12

<400> 42370

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 gttgctggct tgtaataggt gggctagggg ttatctagag atgacaaggc cctcaagttg 180  
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 ttattttgtg gcaccatctt tcgaccataa acaaatacac tcactttgat gaatgttgat 360  
 ataactttcag cattcaatng tagatagaat tc 392

<210> 42371  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-A2

<400> 42371

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 taattacatc attcagtcaa aacttatgcy atgcaaaagc cttgcgcgct gatgcattct 180  
 tttgagcact ttgctggtgt agaggagatg ttggtattct ttcattctgt catccttctc 240  
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<210> 42372

<211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-008-Q1-K1-A3  
  
 <400> 42372  
  
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 taatgtcatc gcggaagatc gcactgagca gttcttgaat gttctacaga gggagctagg 180  
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 <211> 341  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-A7  
  
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 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-008-Q1-K1-B1  
  
 <400> 42374



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<210> 42375  
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 <213> Zea mays  
 <223> Clone ID: LIB3075-008-Q1-K1-B11  
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 ctgaagccgc aggaggtgct cgtgcgcgca cgcgctgtct ctatcaacct cctggacctc 300  
 cgaatgcgat gtggctatgg gcgctccata ttccaaccac tctacctct gatcattggt 360  
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<210> 42376  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-008-Q1-K1-B12  
 <400> 42376

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gcctccgtgg tggcgggcgc cagtgatctg gtctgctgat cgctcccgc catggggact 240  
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<210> 42377  
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 <213> Zea mays  
 <223> Clone ID: LIB3075-007-Q1-K1-H6  
 <400> 42377

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<210> 42378  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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acatggtaat tgtaccagct acaactggtc agatgggtgt ttgcccaggc catgttgcca 360  
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<210> 42379  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-007-Q1-K1-G12

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ctcgctctct ccgcttctaa ccgctccgtc ctgcgccgcg agggccgcac cgccgcgctc 180  
gccacgtca ccaactttgg caggaagacc ctccccaccg cctacttatt ctaccacaag 240  
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gtttacatgc tccaggacca ggaggctcat gctgcagaga tggagcgcac cttcattgcc 360  
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a 421

<210> 42380  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G2

<400> 42380

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acgccggcat cgacatggtg atgatccct acgactacce ggagttcgtc gccgacctgg 180  
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263

<210> 42381

<211> 160

<212> DNA

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<223> Clone ID: LIB3075-007-Q1-K1-G4

<400> 42381

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tttgttcatg atattaatat atatgatgaa tttttcttgc 160

<210> 42382

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G5

<400> 42382

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gcgtgccgcg tcggcgccgt gcacgaccgc gacagccagg aggaggaggg ctccagcgtc 240

accatcgacg cgcccgcgcg cgcgcccgcg gacgtcggcc acgacgacgg cagcgactac 300

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<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-G6

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agaaatgcc a tgtgaagaag aaggatatcc gaaagttttt ggacggatc taigtgagcg 360  
acaagggcgt catcgaagag gagcattgag cgacagtgtg gccgaaatgc caggagatga 420  
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<210> 42384

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G8

<400> 42384

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tagctacaag tacctattat caaccatgtt tggacgcatg ccaaggaaga gtagtaacaa 180  
taccaagtat tacgaggttc ttggtgtgtc taagaccgca agtcaggatg agcttaagaa 240  
agcatacaga aaagctgcc taaaaaacca tcttgataag ggtggagacc ctgaaaagtt 300  
taaagagctg tctcaagctt atgatgttct tagtgaccg gagaagagg agatctatga 360  
ccagtatgga gaagatgcc ttaatgaatg aatgggagga ggcagcagca gtgatttcca 420  
tagccctttc gacatttttg agcaac 446

<210> 42385

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G9

<400> 42385

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tgattaagat caggccctat ttctattcat ttttaaactc atacaaactt cgcttcatat 180  
cctgtccacg tccaaaggcg aggtgggttat ggatcaccaa ccattcactt gataaa 236

<210> 42386

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H10

<400> 42386

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cttcacatgg acaggaatga ctactacgga ggagaatctt cgtccctgaa tctaaccaag 180  
ctctggaaca ggttcaagg caacgacagc cctcccagc acctgggcgt cagcaaagag 240  
tacaacgtcg acatggtgcc caagttcatg atggcaaacg gcgcgctggt ccgcgtcctg 300  
atccgcacca gcgtgaccaa gtatctcaac ttcaaggctg ttgacgggag ctttgtgtac 360  
aacaatggca agatccacaa agtcccggca accgacgtgg aggccctcaa gtcgaacctg 420  
atggggc 427

<210> 42387

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H11

<400> 42387

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gacgggaccc actatgtcag aagccccgtc gtcgtcaacg ccctcgcgtg atctatccag 180  
ttcgtgctaa ctagagtaca ctacctacta ctactacttg agggccttgt ggatttttgt 240

gacatcttag ataagtagta aggcctctaaa atatattttt atttcttctt gttattatta 300  
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 tttggctctt tgcattggg 378

<210> 42388  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-007-Q1-K1-H12  
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 gggcatcat tccttgactc caagaacgac gacgacgacg cttgctacga tcgtcacgag 180  
 tgactaactc tgaggatcgt tggctgtttt gaagcgaatg aacggagggtg tgtgtaagta 240  
 ggtgggtggcg tatgatggaa gacgcgctgt tcccctttta gctcgatgca tgggttaatt 300  
 ttgttctgag ggttttttagc tccggaaatc tgaaattgcc cttggtcctt ttgcagttag 360  
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 aacttgggtc gtataatatt atgtgctaca ttctatgc 458

<210> 42389  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-007-Q1-K1-H2  
 <400> 42389

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 aagggcagcg ccaaggggtg cctcaaggag ctgcgatgct tctagaacca ccatcgaccc 180  
 atctctctag ttatacaatg tgtttggttg ttggatgctg agagattggt tctcagctca 240  
 gatgcaagct gcgcctagcc tgtgtagggt tgtgctggta cattgagagc tcttatttaa 300  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360

aaaatataaa aaaaaaaaaa aaaaaatttt ttatggattg atgttgata ttagtgat 418

<210> 42390

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-H3

<400> 42390

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ctgtcttcca aatactacac cgctttgcta aagggtgatg ctaatcagaa cctcttagac 120

aagggtgagg aactagcaaa gcggatggat gaggagggtg ccaagtttg gaccccaact 180

ttgaatgcac ttgtgaagct atatgctgac gctggagagg tggagaaagc tgagtcccta 240

ttgcacaagc tatctctgaa gaacaacgtc aagcccagtt acagctcata catgacactg 300

cttgatagct actcgaagaa aggagacgtn cacaactcgg agaaagtgtt caacaagttg 360

agacagatag gctacactgg gaggatcagg atgtaccagt ttctgcttca ttcttatcta 420

catgctaaag ccctgcgta tggattcaaa gag 453

<210> 42391

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H4

<400> 42391

ttcagttttc atcacacgac aatggagtg ggctagcaat ggcattgggtc acctgaacca 60

gctgctgcac ctgtccccgc tctcgcgatg gcgggggttt cctatccact tcgcgcgcgc 120

ggagtcgcac ctcaggagg tccgcgcgcg cctgcacggc tgggccccga cccgcgcacg 180

gtgtgtttcc acgcgatgga cgtgccccgc caccaccccc ccccttcccc gttcccggcg 240

cacatgcaac ccttgttcga ggccttctgc accggcgcgc gggcctcgt agtcgcgctg 300

gagaggaggc ggaagaaatg ggggaggagg cgcgacgcac ggacgaaaga tggtgatttg 360

atgatataga tggacggtcc agattggttc gaggccgaac tgggtggagtc atacta 416



<210> 42392  
 <211> 472  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H5

<400> 42392

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ccgcacgttg tcaaagttaa agagtttgct catccctact accaggaagc caagaagttt 120
tctaagcctt acattgatca aattgctgag atcactaagc cacatgttga gaaagttaga 180
actactctga agccatacac taagagagca gttcatgcgt atgggtcatt tcttgcgctc 240
gcaaccacat accatcgaca ggctcaggcg accatcatgg actacctcca tcagcatggg 300
gtaccecaagt catttgcaac gaaggagtta gtttggttcc tggcttctgc cttgctagct 360
ctgcctgtct tcgtcatata caggcttgta gtagagacct tatgcaccaa aaagaacaga 420
aggcctcgctg gcggtaatgg taacggtaac catggccaga agagacacaa gc 472
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<210> 42393  
 <211> 478  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E6

<400> 42393

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cagcagtgga ggttttgcag catcccttct ttcagccatg cttctatgtc ccaccttcac 120
ttcgcttcaa atctactgga tatgcatcaa cgccaccatc agctggggct aaaggagctg 180
ttgatcagaa gaacattagg agatactaca tgggtactgt acccaatgcg aggccaacag 240
ttaattactc gtacttgaga aacaatgctc ctgcaagagc agttggtgca caaaggaaat 300
tggagttgga ttatcagctc ccagagacta ataaccataa taaggtgaca aaggcagaag 360
cgatgaacca gtcttggtcc agaccagcag cagtaaggag caatgcagga aatcatcttg 420
ccaacgacct gaacccccgt gtacctgacc ttgccgagaa gctgtctcag ttgtcaat 478
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<210> 42394  
 <211> 482

<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E8

<400> 42394

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aggggtgggtt ggattcttct catacgatac agtgcgttat gttgagacaa agaagcttcc 120  
tttttagcaag gcaccgcatg acgacaggaa cattcctgac atgcatttag gcctctatac 180  
caacgtcatt gtgtttgatc atgttgaaaa gaaaatgcat gttatccact gggtgaggac 240  
ggactgctac caatctcttg acgaagcata tgaagatggg acaaatcggc ttgaatcttt 300  
gctatcaaaa ttacattgct tcaacgtccc aacgctttct tctggttcta taaaacttaa 360  
tgttggaggc tttggatcgg cgacgctaaa gtcaaacatg tcaaaagaag agtataaaaa 420  
tategttgtc caagctaaag aacacatctt ggctggtgac atttttcaag cagttctaag 480  
cc 482

<210> 42395  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F1

<400> 42395

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tgagcggcgc atggtgcggt cctcccaaag tccccccagg caagaacatc acggccacct 120  
atggcaagga ctggctggac gctaaagcga catggtatgg caagccgacg ggtgccggtc 180  
ccgacgataa cgggtggcggc tgcgggtaca aggacgtgaa caagcccccc ttcaatagca 240  
tgggcgcgatg cggcaacatc cccatcttca aggatggtct gggttgtggg tcttgcttcg 300  
agatcaagtg cgataagcct gtggagtgtc cgggcaagcc cgtggtggtg cacatcacgg 360  
acatgaacta tgagcctatc gcggcgtacc acttcgattt 400

<210> 42396  
<211> 351  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-007-Q1-K1-F10

<400> 42396

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tgggtcgtagg cgccgtcctt ggggcgctcg tcgcccggcg gtcgtgcggg cccccaagg 120  
tgccacccgg cccaacatc accaccaact acaacggcaa gtggctcacc gctagggcca 180  
cctggtagcg tcagcccaac ggtgcccggc ctctgacaa cggcggtagc tgcgggatca 240  
agaacgtgaa cctgccaccc tacagcgga tgacggcgtag cggaacgtn cccatcttca 300  
aggacggcaa gggctgcggc tcaatgctac gaggtgagat gcagggaaaa a 351

<210> 42397  
<211> 349  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-007-Q1-K1-F12

<400> 42397

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ctgagagcta gtggccaaag ttcttcggag tccgaagccg gctgggttga tcttttcagc 120  
aagcgttact ggaaagtgtg gagtgtgggg gcagcactgt ttttgttcca gcagcttgct 180  
ggtataaaag ctgntgtata ttactctaca tcggtgttcc gtagtgcagg cattgcatct 240  
gatgttgctg ctagtgtctt tgttgagca gccaatgttt ttggtactat ggttgcattc 300  
tctctaattg acaacaagg aaagaaaagc cttctgataa cagcttttc 349

<210> 42398  
<211> 306  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-007-Q1-K1-F2

<400> 42398

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agcaacgagt cgctggagaa tgccttcgcc ttctacggcg agatcctcga ctccaagggtc 120  
 atcaccgacc gggagacggg gaggtctcgc ggcttcgcac ttcgtacctt ctcttcgag 180  
 aactccatgc tcgacgctat cgagaacatg aacggcaagg agctcgacgg ccgtaacatc 240  
 accgttaacc aggcccagtc ccgtggcggt ggcggtggcg gccgtggcta cggcggcngt 300  
 cgcggc 306

<210> 42399  
 <211> 327  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F3

<400> 42399

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 catgttcate ttcagcgggt catgatcatg catggcctta agtaagctca cggacggtgg 180  
 cgctgcact cctgccggcc atatcgccgc gtctgtggca gcacgacta tccctattac 240  
 tggccgtctt cgggggtgcc aacatctgct ggggccacgt gaacctgac gtgaccttag 300  
 gtgcctttgt gggcggaac atcagac 327

<210> 42400  
 <211> 483  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F4

<400> 42400

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 ttaccctggg gaagatgata ctgcaattgc acgtggggtc ctaatgtatc tatctcaagg 180  
 gaacctgaga gatgcaaatt tacttatgga tgagatgaag gaacaactaa aatctgttaa 240  
 ctcgatttt ccgaaaacag atttgattca gttcatcatg tatcttttac caacgcttga 300  
 gagagatgct tatectcttt ttaggacact tcgacagaag tataagacaa gcacagatcg 360

tgacgctgtg ttccaggagt tactggacga aatagctgca aaattttaca atatacagcg 420  
ccagaaccct ttagaaggac ttctcagcga aatgttcagg atataatgca tgagaaaaga 480  
ttt 483

<210> 42401  
<211> 464  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-007-Q1-K1-F5

<400> 42401

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ccctcagcgc ggccgaggca ccggcagagt caccgaaggc aggcagtcct gccaaaggcac 180  
cggccgagtc accgaaggca ggcagtcctg cagctcctgc caaggcaccc gagtctgctg 240  
ccacgagaac tgcccccgct aaggcacctc aagccgcctc ccccccgcc gctgccgctg 300  
ccccatcgtc gtcgtcgtct aggaagtctg gtccagctgc cgcgccgacc accgtcgctt 360  
ctacaccgtc ttcttgacg gacgaggagt tgagcccttc gccgtcggca tccaccgncg 420  
aggtggcgtc ccctgccgct gatgggcctg ctgagggacc ggcg 464

<210> 42402  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F6

<400> 42402

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tttcttctt ctctagctat ttgtcccccc tagctcggtt gttctctcgt cccgtcgtcc 180  
ggttcatttc cgcttccgag gaataataat caaccaaagg ggctctgctc tatctcaaga 240  
agacttcatt catgtgggca ccagcagtca ctcaactgcc ggggcgggcg accagggaga 300  
ttaagaggcg atggtccgct gcaatgcatg catgcggata tatgcatgcg taaacacatc 360

gagacgccgt aaaattgttc tggtatagtt atgtatatgt acatgcatat gtctcctgat 420  
tcaacttttg atgtta 436

<210> 42403  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F7

<400> 42403

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ccttttgcga ttgaggagaa tggttttggc atacaacagg cgcgcgcgca cacaccattg 180  
gaacagattt aaagtaggtg ctggaactgt aaatgattcg gtatcaaaaa ggctgggttta 240  
gccatttttag gagattatgc gtttcgattt catgggagtt gggaggacag aattgtatca 300  
tagtgcagta actcttggtt gtaggattga gttatcctgc atgccatggt tgtggcgctt 360  
cgtcagcgac cgaatgcttg aatgtgggta cgatttctctg agctcctttt caaccattaa 420  
ttcc 424

<210> 42404  
<211> 466  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-F8

<400> 42404

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attctcccgc tgccgccttc gcgcgcctcc ggtcgacgcc tcgtttcgcg agcgtcggct 180  
tgtcggttaa gggaaacgga gcggcggtcc cgttggtcgc cgccgcgggg ccggccgcgg 240  
cggcaccggt ggccgacctg gactggccgc cggccacgga gaagcagccc atcatcgtea 300  
tcgacaacta cgacagcttc acatacaacc tctgccagta tatgggggag cttggattga 360

acttcgaagt ataccgcaat gatgaactga ccatangaga tgtgagaagg aagaacccaa 420  
 ggngaantac tatttctnca ggacctggtg aaccacagga ttcggg 466

<210> 42405  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F9

<400> 42405

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 caaggtctcc tccatgcccg cgctctccta ccgtgagccg gatgggtcca ggatgctgcc 180  
 agcccatggc gccgggagcg acggcgacgt ctctctgctg gggcaatgcc ctccgggaca 240  
 ggacctccac cgtgggtcga catgggactt caccttcgcg gccgtgaagc cggcgaagag 300  
 gaggacggcg agcgaggtgg ggttctccga catgttcgcc gtcgcaccgc cgggggattg 360  
 gttcggcggc gggtcgacgg cgccatcgcc ggggccgtca tcggccgtca ccgacgaaga 420  
 gtttaacctg gagatgcagc agttcatgtc aatgct 456

<210> 42406  
 <211> 460  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-E5

<400> 42406

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 ggcaccggca gagtcaccga aggcaggcag tcctgccaag gcaccggccg agtcaccgaa 180  
 ggcaggcagt cctgcagctc ctgccaaagg acccgagtct gctgccacga gaactgcccc 240  
 cgctaaggca cctcaagccg cctccacccc cgccgctgcc gctgcccacat cgtcgtcgtc 300  
 gtctaggaag tctgggtccag ctgccgcgcc gaccacgcnc gcctctacac cgtcttcttc 360  
 cacggacgag gagttgagcc cttcgccgtc ggcattccacc gncgaggtgg cgtcccctgc 420

cgctgatggg cctgctgagg gaccggcggc tgctgatgcc

460

<210> 42407

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-D12

<400> 42407

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cccaacatca ccaccaacta caacggcaag tggctcaccg ccagggccac ctggtacggt 180

cagcccaacg gtgccggcgc tcttgacaac ggcggtgcgt gcgggatcaa gaacgtgaac 240

ctgccaccct acagcggcat gacggcgtgt ggcaacgttc tcatcttcaa ggacggcaag 300

ggttgcggtc catgctatga ngtgagatgc aaggaaaaac ctgagtgtc gggcaatcca 360

gtcacggtgt acatcactga catgaacta 389

<210> 42408

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D2

<400> 42408

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tgcaggacag gagaggttta ggagtcttat tccaagctac atcagggact cttctgttgc 120

ggtggttggt tatgatgtat ccaatagaca gtccttctg aacacctcaa agtggatcga 180

tgaagtgcgc accgagagag gtggcgatgt gataatcgtg ctcgttggca acaaaactga 240

tcttgctgac aaaagacaag tgtccacaga agaaggagag agcaaggcaa aagaattgaa 300

tgtcatgttc atcgagacca gcgcgaaagc cggctttaac atcaagcccg tgttccgcaa 360

gatcgcttgc accctgccag gaatggagac attgtcagca aagcatgagg acatggtgga 420

tgtc 424



<210> 42409  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D3

<400> 42409

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ttccaggagc tcaaggcgaa gaggagcttc cgcttcacgt tgttcaagat caacgagaac 240  
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<223> unsure at all n locations

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<400> 42410

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tgcagacctg cgcgcccaac tcgacgcagg tgggtggggt cctgacgctg ctcgctctctg 180  
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tcttggggcc catcgcgctg ctcaccagcc ccatctgggt gcccgctgcc gtcgtgatct 300  
ccgccatcgt cgccgacgcg ctctcgtct gcgccttcgc cgtcgacgcg ctccccgtgg 360  
ccacctggat gtaccgttac ttcacgggcc gacacccctg gggcgccgac cgggtggact 420  
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 <213> Zea mays

<223> unsure at all n locations  
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<400> 42411

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 caccaacgag tgggtaaagc ccaagccagg aacctacgtt acaaggctca cccgcttctc 180  
 cggcacactg tcttgttgca cgggcaagcc gtgctgaagg ccggtgggca tcaggctgct 240  
 tcttctagct catggcctgg ccatgccagg tgcgctggc tgcgtttcat ttcattggaag 300  
 aaagcaagga tggatcacag gttgtcgttc tgctaattaa tctacatacg tttgccttca 360  
 agtactgtgt tgtggcattg ttacacatca cagtacagtt tgggtcaaatt tttttccac 420  
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<210> 42412  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D8

<400> 42412

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 cctcatctgc ggcgccaaga cccagtcgaa cccggagaac acggtaggcg tgatgacaat 240  
 ggccgggaag ggtgttcgcg tgcttgctac tcccaccagc gacctcgga agattctcgc 300  
 ctgtatgcac ggggttagaag ttggcgctga tgcaaacttg gctgcggcaa tccaggttgc 360  
 ccagcttgct ctaaagcat 379

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 <211> 448  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D9

<400> 42413

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atcgagggcc accacctcgc ggcgggggcc atcgtcggcc acgacggtgc cgcctgggag 180  
cagagcacgg cgttccccga gttcaagacc gaggacatgg ccaacatcat gaaggacttc 240  
gacgagccag ggcacctcgc gccgacaggg ctgttctctg gacctaccaa gtacatggtc 300  
atccaaggcg agcctgggtgc cgtcatccgt ggcaagaagg gatcaggagg catcacctg 360  
aagaagacag ggcaggcact cgtcgttggc atctacgacg agccgatgac gcctgggag 420  
tgcaacatgg tgggtggaaaa gctgggag 448

<210> 42414

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E1

<400> 42414

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ctgatgctgg atattttttc gatgggaagg atatctccgg gaactttttac gctagggtcaa 180  
tctataagag cgttgtgaat ctacatggat cagccaaaaa tttaccagct tcatgtacct 240  
caaagccaaa gcaatcacct gagctgtgta tgttcccaca gtatgttgtc ccgacaatgc 300  
gcacaccatt gttcatactt aatgcagcct acgattcgtg gcagggtcaag aacgtcctag 360  
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<210> 42415

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E10

<400> 42415

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cgcagcctca actcctctcc cacctcacgc acgtctctcc cagccgttcc ttcattttctc 180
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gcccccttca gtgcctgacg ccgcatctcc ctggtgtctca cctctgtttc cccctgcgtt 300
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ccttccatgg acgccagccc 440

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<210> 42416  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E11

<400> 42416

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actctactgt gcgtgcgcga caaacttgcc aagcctatgg tgcttatgcc caacgataac 180
gtgctcccgg cgcaggataa ccacagactt catagttact tcgacccgat caagctggac 240
gagagtaaga cactcaccac cattctccac acgctgctct aggacactga caagaaactc 300
gagagtctaa acta 314

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<210> 42417  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E12

<400> 42417

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gaagaggaga aactccaagc agaggccaga aagagggaag aggaagaaga agctctaaga 180  
 caactgagga agaacttggt cgtccgagca aaacccatgc caagcttcta ccaagaggga 240  
 cccccaccaa aggttgaact taagaagggtg ccttcaactc gtgccaagtc accaaaattg 300  
 acacggagga aagagctgca gtgaaacccc tcatacacca gagggaggaa atggcagtcg 360  
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<210> 42418  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E2

<400> 42418

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 caaccggcg ctcttcctcg ccaaagcgcg aggagggacg tgcacgctcg ctccctctga 180  
 cctgacgac acgggtggctc gccgcgccag atacctgctg agcaacgggt tcaggtgcta 240  
 caacctgttc aagagcaact gcgaggactt cgcgatatac tgcaagactg gcctttctgt 300  
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<210> 42419  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E3

<400> 42419

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 gccgtcatcg gcatcgctt cgccgtcgtg cagtgggtgc tcgtgtcgcg ggtgaagctc 180  
 tccccggctg cagccgcgtt cggcggcagc aagaacggct acggcgacta cctcatcgag 240  
 gaggaggagg ggctcaacga ccacaacgct gtcgtcaagt gcgccgagat ccagaccgtt 300  
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375

<210> 42420

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E4

<400> 42420

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cgccgcgcgc acacgcgcgc catggccatg ctggctcgct ccgcccgcgc cctctttcttc 120

ttcctttctcc tcgtctccac cgcgcccgcgc gtgcggacca tccccgacga agcccgcggc 180

cccggaaaca acatccacga ggcgtgcagc aagacgctgt tccccaaggt gtgcctgcac 240

ggcgtcaagg acaaccccgga gtgccaggcg ggggcgggtca cgccgcgcgc gctggccgag 300

ctgctcgtgt acgtgtcggc cgaagtgggc atgaccgtgg ccgcttcgc gcaccacgag 360

ctcaactcca tcaaggacga cgtcctgtac aagggcctcg acacct 406

<210> 42421

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D10

<400> 42421

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tggcgaactc ggcgtcgggg atggccgtga gcgacgagtg caagctcaag ttccaggagc 180

tcaagtcgaa gcgaagcttc cggttcatca cgttcaagat caacgagcag acgcagcaag 240

tggtggtgga caggctgggg cagccggggc acacctacga cgacttcacc ggctccatgc 300

ccgagagcga gtgccgctac gccgtcttcg acttcgactt caccaccgac gagaactgcc 360

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tgctgtacgc gagtccaag gaccggttca agaggagct 460

<210> 42422

<211> 457  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-007-Q1-K1-B8  
  
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 cggtcgagat cggagagtcg gctgacgttc cagagaaaga aatggaggcc gagatgggtcg 180  
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<210> 42423  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-007-Q1-K1-C1  
  
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 gctagtggcg gccaccgccc cacaggtagc ggaggcaaag aagaagagag cggcggagag 180  
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 <211> 455  
 <212> DNA  
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<223> Clone ID: LIB3075-007-Q1-K1-C10

<400> 42424

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aagtccgggt ggtgaggggc atcaaccttg cctaccgga cgcaagaggc agcgatccgt 180  
atgtcgtcct acgacttggc aagaagaaac ttaagacgag cgtgaagaag agatctgtga 240  
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tggaggtgtt cgacaaggac acgttcagca gggacgacct gatgggggac gcgagatcg 360  
acgtggcgcc gctggtggag gcggcgaacg cgagcccgga ggcgagcctg aggaacggcg 420  
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<210> 42425

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C12

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tagggcggtg caaggacgag aaggacgtca cggacatcaa cgtcaaggat tgcactctta 180  
agaagacgat gttcggcgtc cgcacatcaagg cgtacgagga cgcgcgctcc gtgctcaccg 240  
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aggatgtcac cttcaagaac atcaccggca ccttcttcac cccggaggcc gttagcctgc 420  
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<210> 42426

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C2



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accccgctgt accggttcaa cgtcccgac ctgcgctcg gcaccc 226

<210> 42427

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 42427

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agtgccacaa ggagatgata acgaagcagg agcaggccca gctggctgcc tctccatcg 240

atagcattgt caatggcggg gacggcgga aaggacctgt aattgctgca tctgtaaag 300

tggcagttcc tcaagttgag cagaagacta ttgttgca gccatgctt gtagctgaaa 360

ccagcgaggc tgctgctgta atcccaagg ccaaggaagg cccagaccgg tgcgggcct 420

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<210> 42428

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C4

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tactcgaca actgccgcg cggttcgag acaaactgtt cccacgccat ccaaggcgcg 180

acggtggaga tggagtggc ccacttcgag tcgcagcagg tccacgacaa ggcggaggcg 240

acgacggggc cggcggtg gtacaggatg gagatcagcg gcgaccacca ggacgagatc 300  
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<210> 42429  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C5

<400> 42429

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 tgacctgcgt gcacgtgggc aacgcgaaga agttcctcta ctccccgttc actgaaagca 360  
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 c 421

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 <211> 476  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C6

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gagactcaca aatcacaatc aatacgtaat gcagttactt caggtttggg cagaaaccgt 420  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ggcccgctaa gcttgcgtga ggtaacgagt cacctgaaga tcacacctgt atctggaatc 240  
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gttcgtgaga ggtctaggtc gtcgtctccc agtcaacttt tggttgctgg accgttgtct 360  
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tcgaaaaana aaa 433

<210> 42432  
<211> 475  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-007-Q1-K1-C8  
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<210> 42433  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cagtcttttg cgccacctat aacctatcgg atcctgcaaa gctatatatg attctatggt 360  
ataatgtgtg gntgcggcaa acgcgcggga ataatgtgct tgcgtgattg gttttctctc 420  
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<210> 42434  
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<213> Zea mays  
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tcaaggtcac attctctttt ggagacattg ttcataagag agagaacgtt tcgatggggc 300  
aatttgcat taccacagca gatgcaggga actaccttgc ctgcttctca attgatgggtg 360

aggacagagg gttagtgggtg aagctagatc ttgactggaa aattgggctg gctagtagag 420  
actgggattc tgttgccaaa aggaaaagat 450

<210> 42435  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B7

<400> 42435

gtgtgctacc acatcatagc tgccggattg aacggttaca tggctacggt gacaaatctt 60  
aagaatccag tgaacaagtg gcgatgcggc gcgactccta tttcgtctat gatgactgtg 120  
aagcgatggt cgcgtggccc ttcagccacc caaattggaa agcccgtgtg tcacatggct 180  
agcgttgact tgaaaggaaa agcatacgat gtgttgagac agaattcttc cagctttttg 240  
ttggaagatg tctacagaaa cccaggcccc ctccagtttg aaggaccagg tgccgattca 300  
aagcctatctt cattgtgcgt tgaggatcaa gactatatgg gcagaataaa aaagttgcag 360  
gaataacttg agaatgtgaa gaggattgtg aagcctgtgt gctcgcagga tgttctttaa 420  
gcggcgctga gtgcatgtc ttctgtgacg gaaacactga aca 463

<210> 42436  
<211> 450  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-A12

<400> 42436

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gcgccggcga cagcggtcgc ctgcgccggc gtgctcggca ctgtggccgt catggtgttc 120  
gtgtactact ccacggtgtt cgtcttcctc gatcactggg tcggcctcgc cagcccgatc 180  
ggcgccgcc acgccgccgc cgtctcgtc gccgtcggc cgtgcttctt cgccttcgtc 240  
tgcgccgcgg gcgccgaccc gggcgccgtc ccacccgcct tcgccccga cgccgaagcc 300  
gcgcagggac aggggttgaa atcaaggtat tgtgataaat gttgcatgtt caagccttct 360

cgtaccacc actgcaaggt ctgcagaagg tgtgttctga aaatggatca tcaactgtgtc 420  
 tggatcaaca actgtgtang atacgcgaac 450

<210> 42437  
 <211> 479  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-007-Q1-K1-A2  
 <400> 42437

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 gacgctcaag ctgggggttca ggtttaagca ggacctggtg tacctctcct ccaccttctc 120  
 cgccgccctc ggggtgcgatt ccggattcga taggggtggag cttttcttgg atgtcaccaa 180  
 catttattac tatctcaagg gccatgatag gcagaagaag cttccaaagg agaccaagag 240  
 tttggcaact atttgtgagg agctgcttgg tatecttttg tccaaggaac tccagtgtag 300  
 tgattgggtca tgccgcccct taagtgaagg gcaaatacaa tatgctgcgt cggatgccta 360  
 ctacttgcta gacatatttg atttgttcca aaaaaggatc acaatggaag gaaaatgttc 420  
 atctacaaca gaacttactt cagacagaca ttgctcatca gtggtgatag aatgctctt 479

<210> 42438  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-007-Q1-K1-A4  
 <400> 42438

atcacgacaa gatggcgtgc acaaacaatg cgttgagagc cttgttcctc ctgggtcctct 60  
 tctgcatcgt gcatgggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120  
 ctggtgggtc cttcgacatc accaagttgg gcgccttcgg caatggcaag acagacagca 180  
 cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240  
 tcatacccaa gggtgacttt cttggcggac aactcaactt tacaggccct tgcaagggcg 300  
 acgtgacc 308

<210> 42439

<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A5

<400> 42439

cgggaaagta ttgaatacac ctgatgtttc acgtgtttat attggatcat tcaatgacaa 60  
acgagtaaata gaatcagctg ttggtccact tggaaaggaa ctatttgaga gagagcaaga 120  
tgatcttctt tctgatctca aagatatccc caagaaagcc tgtgaccgcc ggatcaatga 180  
atctgttaaa cgtgctagag ctgccaagat ccatgcttat ataataggct atctaaagaa 240  
ggagatgcct acaatgatgg gcaaagcaaa agcccaacaa cgactcatag acaatctgcc 300  
tgatgagttt gcaaagggtc aacgggaata ccatcttccg tcgggagatt ttccttatgt 360  
ggagcacttc aaagatgtct tgagcgggta cagctttgac aagtttgaga aggtgaagcc 420  
caagatgata caggccgtgg atgatatgct tggatatgac at 462

<210> 42440  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A6

<400> 42440

ctttcgttcc tcctcgcccc agcgacgagg cctcccgtag accgagcaag gcaacgcacc 60  
actgagaggc acgcagagga gcaggaagcc ggagaccaag atgtcgtcgg tgttcagcgg 120  
cgatgagacg gtcccccttct tcgggttctc cggcgccgcc gtcgtcctcg tcttctcatg 180  
catgggcgca gcgtacggga ccgcgaagag cggcgtctgc gtggcgctga tgggtgtgat 240  
gcgggccggag ctcgatcatga agtccatcgt gcccgtgggc atggctgggtg tgctcgggat 300  
ctacgggctc atcatcgtcg tcatcatcag cactgggatc aaccccaagg ccaagcccta 360  
ctaccttttt gatggctacg cttaccttct gtccgggctt gcctgtggcc ttgctgggct 420  
tgcagctggc atggccatcg gcattgttgg tgatgctgg 459

<210> 42441  
<211> 470  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A8

<400> 42441

acttttcctga gtaggagaga gagttgagtt aggagttggt gtgctgatca tctgggacga 60  
ccgagagatg gaccaccact tcaactgagat agaggggaag atggcgcacg agccactggc 120  
acacagctcc accttctccg atgagacgaa agacaaaatg gagcacgatt cactgggtgta 180  
cagtccacgc agcatcgca gggccacaac caccggcatc cctgtcggcg atcaaggcgt 240  
ggcgtgcta cgtgggccgc ttatcgtggg tgcagggccg gcgggtctgg catgcgcggc 300  
gttgcctacc atgttatata ttccctacgt gctcctagag cgcgacgtgt gcgtagcctc 360  
aatgtggcac cgtcgcacgt accgcaggtt gtgtctgcac ctaccaagc gctactgtga 420  
gtccccgctc atgcactttc cagcaccta cccacatat ccaaccggc 470

<210> 42442

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A9

<400> 42442

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atcccacttg cccagcttg tggtgtaatt cgtgtattga cccagtata tgctaccctc 120  
cttctgctg gcccttttat ctggagaata ttctggattt tactttggtc agttctgacc 180  
tattttatgc tcgcatatt caagataatc gtgggattga tactgcgctg ccttgcaaatt 240  
tggtatgtaa atctacggct cacaagaaaa caacacgtgg attgagtaca tggcaccaca 300  
attctgctgc tatcgttaca tctgtgagta gaaattttg 339

<210> 42443

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B1

<400> 42443



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 tgggtggtgct gctggtgctt cctctttgtt ttttgtgtac tccctggact acgcgagaac 120  
 aaggttggct aatgacgcga aggctgccaa gggaggaggt gaaaggcagt tcaatgggct 180  
 tgtcgatgtc taccgcaaga cactcaagtc tgatggtatt gctgggcttt accgtggatt 240  
 taacatctcc tgtgttggaa tcattgttta tcgtggtctg tactttgggc tctatgattc 300  
 catcaagcca gttgtcctta ctggcaacct ccaggacaat ttctttgcca gtttcgctct 360  
 gggttggctg atcactaatg gtgctggtct tgcattctac cccatcgata ccgtccgcag 420  
 aaggatgatg atgacatctg gtg 443

<210> 42444  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-007-Q1-K1-B10  
 <400> 42444

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 atctcacgga atggcggcga aagcaatctc gagccgcgtg ccggaggagt ggtacccgac 120  
 gctggccggc gccatggtat ccggaggcct catgttcacc ggctgcttct tgatttatga 180  
 agcaacttca tcccggaaga gccgtagcct gtcaaaggag atcgcatcag cagtctgttg 240  
 cttctggtgt cttggactgt gggctctatga tcgtgcttct tgcaagtggg gccaatgcct 300  
 gatgactggc tatggcccgt gtgtgcttgt gttctgcata ccgagctgta gactgggtta 360  
 tgacacatcc tgaacgctga tgtcctaacg aatatagagc a 401

<210> 42445  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-007-Q1-K1-B11  
 <400> 42445

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 ttcgatgcac aggataacat ctgcctcgat gttacagctc tgccgtgaag ggaggcacct 120

cgatcgctgg cgtatgtgac atcattgctg tcgcatctgg gaaaggcggc gtaggcaagt 180  
ccaccactgc agttaacatt gctgtagcac ttgcaaagga gtttaagctt caggttgggt 240  
tgctagatgc tgacatctat ggaccatcca ttcccacaat gatgaatctc catgccaagc 300  
ctgaattaag tgaagacatg aagatgattc caattgagaa ccatgggtgtg agatgcatgt 360  
ccattgggtt tctttagac aaagacgcac caattgtttg gagaggtaat gagtgtctct 420  
gagaagatga caaggggagt tgcttggggg gac 453

<210> 42446

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-B12

<400> 42446

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cgagggtggag gctaaccagt acaccgtgc actgaatccc atcctcttcc aggtcctcat 120  
cagtcctatg cttgggggaa ccaccgacca gaaagttgtg gatgagaacc ttgagaagct 180  
gaagaaggtg ctagaggtgt acgaggcacg cctgaccaag tgcaagtacc ttgctggaga 240  
cttcctcagc ctgcccagcc tgaacctgt gtctgtcact ctctgcctgt tcgctacgcc 300  
ctacgcatct gtgctcgacg cctaccgcga tgtgaaggcc tgggtggtctg gtctgatgga 360  
gaggccgtct gtccagaaag tcgctgccct gatgaagcca tctgcttgaa acgngtgccc 420  
tgtcaatcgg tgaatggaat aagccaagtc 450

<210> 42447

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B3

<400> 42447

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ggagaaaccc tcctcttgct cgaccgtggg cagaagcccc cggccgacgt tcttgcccgt 120  
cgaatcgtcg ataccctct ccaatccctc accgatctag cgaccataac actaatactt 180

gtttattgat gatttgaaat gtgagctaga acgtgctaga acctgatggg attgtatggt 240  
 ttacttcagt ctgcacttac tgtaacaat ttcgttcata gaataccaat ggccctgggt 300  
 ttgacttttg agctatacat gtaatacatg atttaggatg ttagcgtatt ctcttgctgg 360  
 aatgcatatg ttaaagagta tagatgtgta tgagcata 398

<210> 42448  
 <211> 468  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B5

<400> 42448

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 ctgcttcag gagaagttcg aagatggctg ggaaagtcgg tgggtcaagt ccgagtggaa 120  
 gaaggatgag aacatggctg gtgaatggaa ccacacttcg ggaaaatgga atggagatgc 180  
 cgaggacaaa ggtattcaaa cctccgagga ttacagggtc tatgccattt cagccgaata 240  
 ccctgagttc agcaacaagg ataagacct ggtgctgcag ttctctgtga agcacgagca 300  
 gaagcttgac tgcggtggtg gctacgtcaa gttgctgggt ggtgatgtag accagaagaa 360  
 atttgggtgga gacacatcgt acagcattat gtttggacca gatattctgtg ggtacagcac 420  
 caagaagggt cactatcc tgaccaagga tggcaagaac cacttgat 468

<210> 42449  
 <211> 474  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-B6

<400> 42449

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 gccactgat gaggatgaga caagtgaaga agaggattca actccagaaa ctacagagga 120  
 agagacagaa gaagacgaag acgaagagaa agagaaaaag cccaagacca agacaataaa 180  
 ggagactact tctgagtggg aacttctgaa tgatgtgaag gctgtatggc ttcgcagccc 240

aaaggagggtt actgatgaag aatactcgaa gttttaccac tcactagcca aggacttcgg 300  
 tgatgacaag cctatgggtt ggagccactt cactgccgaa ggagatgttg agttcaaagc 360  
 tttgctcttt attccccga aggctgcaca tgatctctat gagagttact acaacagtaa 420  
 caagtcaaac ctcaagttgt atgttaggag agttntcatc tctgacgaat ttga 474

<210> 42450  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A1

<400> 42450

atcttgttgc accctaccaa aggggtggaa agattggcct ctcggtggt gcaggagtgg 60  
 gtgaaactgt gctcatcatg gagttgatca acaatgttgc taaggcccat ggtggtttct 120  
 ctgtgtttgc tgggtgttga gaacgtaccc gtgaaggtaa tgatctgtac agggaaatga 180  
 ttgaaagtgg tgtcattaag ctagatgaca agcagagcga aagcaagtgt gctcttgttt 240  
 acgggcagat gaatgagccc ccgggtgctc gtgcttcgtg tgggtttgac ttgttttgac 300

<210> 42451  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G2

<400> 42451

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 catggcaggc aataaccaa atggaggtcg aggtttaacc aagaaagggg acccaagagg 120  
 atgtcaagga acttatattc agggagatat tagagtatca ttcttaactt ctcaaggatt 180  
 acatgaatgg aactgagaaa acaaacttta tgtatcctag tgctgttgac aatttccgaa 240  
 ggcaatttgc taacttggaa gaaaatggag gaaagagtgt ggcgcacaca gcttttatatg 300  
 acacgaaac 309

<210> 42452  
 <211> 339  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G3

<400> 42452

cggacgcgtg ggcaggaatt cacgtcgatc gcttgagtta gtttgcagcc aagatgaacg 60

acgccgatgt cgggaagcag gtgcagcaga tgggtccggtt catcctgcag gaggccgacg 120

agaaagccag cgagatcagt gttgccgccg aggaggagtt cagcatcgag aagctgcagc 180

tgggtggagtc ggaaaaacgg aggggtgcggc aggagtacga gcgcaaggag aagcacgtgg 240

acgtccgcag gaagatcgag tactcgacgg agctgaacgc ggcgcgcatc aagctgctgc 300

gggcgcagga cgacgtggtg accgggatga atgagagcg 339

<210> 42453

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-G4

<400> 42453

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gccagctcca aggacaggtt caggagggag ctggacggca tccagtgcga gatccaggcc 120

accgacccca gcgagatgag cctcgacatc gtcaggagcc ggaccaactg accgtcatcg 180

tccaataacg accaagcaac aacacattca cactatatac tcaattcaca ttgcatgcat 240

cgntattatt acatcattta tttcagaccc cncggccact gctaaccgta gtccataaga 300

gattcatcat ccgtggacta tgctcgatct cttncgtacg atacaattct caaatatttc 360

taattatttt ctaagtgaan tattatatat gtactaattc attcaagttt cattttactg 420

ggaccattct tcaagtcttt tttc 444

<210> 42454

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G5

<400> 42454

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 cgcgcctacg agagtcgagt gacagcgagc gagcgagcga gcgaagccat ggctctccgc 120  
 accctggcat cgaagaacgc cctatccttc gcgctcggcg gcgcggaccg gccgtcagag 180  
 gcgtccgcga ggggggtgac gacggtcgcg ctctagacc tctcctacga cttcggcgcg 240  
 ctggagccgg ccatctcgcg ggagatcatg cgctgcacc accagaagca ccacgccacc 300  
 tacgtcgaca actacaacaa ggcgtggag cagctcgacg c 341

<210> 42455

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G6

<400> 42455

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 ctgctggctc tgcaggtgct catcgagtac ggccgcgcgg gggcctcccg cccgcccgtc 180  
 acggccgcgc tgctcgccgc caactcactc gtctacctcc gccccggcgc gctcgacggg 240  
 gtctgcct cgtcgcgcg cgtctccttc aaccctcagc tcatcatcga gtatggcgac 300  
 ttgacgcgct ttttctgtc acccttctac cacttgagtg aaagtcacct cttctacaac 360  
 atgacgtcgc tgcttgggaa aggcattcat ctcgagacat caatgggta 409

<210> 42456

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G7

<400> 42456

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 gctgctgcta agactggaaa aattatcaat atcaagaaag gacaattctg tgcgccttct 120  
 gttatggtga actctacaga gaaagtaagg cttgctggga atccaaatgt gatggtctgt 180  
 gagcgtggta ccatgttttg ctacaatgat ctatttgttg acccaaggaa ccttgagtgg 240

ctgagggaaa gcaactgccc agttgtagct gatgtaacac atgctctaca gcaaccagct 300  
 ggaagaaagc ttgatgggtgg aggtgttgca agcgggtggc tacgagaact aataccgtgc 360  
 attgcaaggc cttctgttgc tgt 383

<210> 42457

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G8

<400> 42457

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 cgcgggcgcg gccatcgtcg gccacgacgg tgccgcctgg gccagagca cggcggtccc 120  
 cgagttaaaa accaaggcca tggccaccat catgaaggac ttcgacaagc cagggaaactt 180  
 gggggccgcca ggccggtccc tgggacctac cagagccatg gccatccaag 230

<210> 42458

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G9

<400> 42458

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 tatgtgggcg tctgcatgag cgccgagacc aacatcatgt gtaagcgctg tagcaccgccg 120  
 cttgcatgtc gtgtcggggtt gctgcgggaa c 151

<210> 42459

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-H1

<400> 42459

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gcggcgtccg agcgccattg ggaggtgtac aggttcctcc tggatgacag caaggagttc 120  
 cccttggcaa gcagcctcgc taacaggaac tgtgtcgtcg atagggcgag gaagacgctg 180  
 atgggatgct acaactgaga cttgggtggg tgtcgatctg tatctgtctg caagaatcca 240  
 acgaagcagt gcaagtgcaa tgcaaggctt tccccatcca cagatgcatt tgcattgctat 300  
 gctgcttcct ggagttgtgc acgngatgg tttgaaacca gagttatgca cagcacagac 360  
 tgaaatgaat g 371

<210> 42460  
 <211> 331  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-006-Q1-K1-H10

<400> 42460

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 gaagtatgaa ccacactatg attacttcac tgacaatgtt aacactgtcc gtgggtgggtca 120  
 tcgctacgct actgttcttt tgtacttaac tgatgtacca gaaggagggg aaacgggtttt 180  
 ccccttggct gatgagcccg atgatgctaa agatgcaacc ttgtcagaat gtgctcagaa 240  
 aggcattgca gtgagaccac ggaaagggtga cgccctcctt ttcttcaacc ttaaccagaa 300  
 cggcaccacc gactcgggtga gcctncatgg t 331

<210> 42461  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-H5

<400> 42461

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 gaccgtgggc gacaccgtgc aggacgcgtg cagcaagacc cagctcccca agatctgcgt 180  
 ggacagtctc gccgacaagc cggagagcca caatgcgacg ccgcgcaagc tggcggagct 240  
 gttcatgaac atcgcggccg aaaaaggatc cggtatggcc acctttgtgc accgtaagta 300



cagcgacaag gaggacagcg acatattcaa gtgctacgac agttgctccg a 351

<210> 42462

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-H6

<400> 42462

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cttcgtgggc catactggat acgcattata tategcaaga aattttctgt tgacatgcgc 120

tgctttgctg gggatcaggt ttggtccag ccagctactc ctctaaagg tggaccttca 180

gttggtggat cgttgccatg cccacagttc cggcctttca taatggaaca tgttgctcag 240

ggctctaaatg ctcttgaacc caacttcatg aatgctacac aggctagtgg acacttaaat 300

aacaatgcag gaggccaca aactgtcct agtgcaaac gtttaaatgc taccctgggt 360

gtttctatgg tcaggccaac atctgggtgtt gctaaccatg tagcagccag tttgagtcga 420

<210> 42463

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-H8

<400> 42463

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gttcctgttg ttgttcggtt ggaaggcacc aatgtagacc aaggaaagag gattottaag 120

gaaagtggaa tgactttgat cactgcagaa gatcttgatg atgcggcaga gaaagctgta 180

aaagcatccg tcaaataact agtgataaaa tgtgaatttt tttttttaa caggggtaca 240

agatgagcag tgctctttta cggatttcga tttggagcag aagtcgtgaa ctgcaacgtt 300

tttgaagtag ggttattttg gccttgtnnt gctgataaat gttgccagt ccaaaaattg 360

tggctctggt ttaat 375

<210> 42464

<211> 394  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-006-Q1-K1-E6

<400> 42464

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 tgcagacaac tcctggagta agaacagatc atcttcatct agcgcttggg gcgctcccag 120  
 tggaggagct ggcggccgag gttcttgggg aaagagcaac gaggatggct ggaactcagc 180  
 gggaggatca gccaaagaga agcctgcatg ggggtgtggg tcagaagcgt ctaccaagaa 240  
 agaggacaaa ggtggtgagg ggaacgggag ccaaggagga cgtggtgtca gttcctgcga 300  
 taaaggggca gatgatgcat ggaacggcaa cacggtagt gatattgnga gtggtggatg 360  
 gtaagatttt cgccaaaata atatgaactc tgtc 394

<210> 42465  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-E7

<400> 42465

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 ccggcgccgg cgtcgacatc aaggtgtcgt gtgcagcgac gccggaccgc gacgtgtgcc 180  
 tacgcgcgct ccaggcggac agcgactcca agaccccgcg ggacctggcg gaggcggcgc 240  
 tccgcgcggc gacgaccgcg ggcggcgcg cgggcgacta cgcgcggcac gagatggacg 300  
 tggatgaagga caacgacatg tggcagtgc tgaacgagtg cgccggggag atcgaggagg 360  
 cgcttgacc acctggacga caccgagggc 390

<210> 42466  
 <211> 465  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-E8

<400> 42466

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aaattactct tgagaggagc ttgactacca cttcagctag cagcagggtca aatagaagca 120  
agattgacaa ggagcctgca gtcagtagaa acaagcagaa caatagggtt gcaattttca 180  
gagatcgtga gtcagagcgc aaggatcctg attatgacag aagctatgac aggtatatgc 240  
aaagatttga tcttggtatt ggatttagtg gcgggccata cacaattcaa cccctctata 300  
cccctgctgt taactacaac actgaattcc cccagcttgc gtcagcacac cgatcacctg 360  
ttgctgtcga acagcaacct cgtccaatag ctcagcacat gcctgcatca tggtcggtgg 420  
ctcaagcatc taatgcaatt ggctatgggc caaatggtgt catgg 465

<210> 42467

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-E9

<400> 42467

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atggtggagg cgccggccgg tctgagcgcg gcggcgcgagg tgagcgcgct gccgctgcag 120  
gtggatctcc tgcagctgcc gccggaggtg cccgcgccag gggatcccgc cctgcgcggc 180  
gtcctcgaca gcctcttcgc gcattggctc tcgctaccga acaccgncgt gctgctcgcc 240  
agcctcgtgc acaaggccaa ggccagcggc ggcgggcgccg tggcggtgt ggctgggatg 300  
ctgccctcca tgttgctgca ggggggaacc ggcgtgccgg ctattttcc 349

<210> 42468

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F1

<400> 42468

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aatggcaggc ggcaggggtg cacatgctac cctcaagggc cccagcgtgg tgaaggagat 120  
 cttcattgga ctgaccctgg gtctgatcgc tggaggtatg tggaagatgc accactggaa 180  
 cgagcagagg aaaactacat ccttctacga catgcttgac aagggccaga tcagcgtcag 240  
 cttacatgag tatttgcgac atgtcatctc agatgatgaa cattatccag a 291

<210> 42469

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F10

<400> 42469

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 tgccctcgtg ccgcgggtgga gcggagggcc actcatggcg tcagggtgga ggtgcgcgcc 120  
 gcgcaccggg cgggcttgct atcggatttc accaggggtgc tcggggagca cggcctgtcg 180  
 ctgctgagag ttgagctcaa gaggcacaag gacgaggcct tcggcatatt ttacctcgtc 240  
 acggacaccg gaggcgaggt gcgcgctgag tcgttgccgc cgtgcaggc gagggtcgcc 300  
 gagatggata tctcgctcga cgttgtg 327

<210> 42470

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F11

<400> 42470

cggacgcgtg ggtcacgaca agatggcgtg cacaacaat gcgatgagag ccttgttcct 60  
 cctgggtcctg ttctgcatcg tgcattggtga gaaggaagag tcaaagggca tctatgcgaa 120  
 agcgtccggg cctggtgggt ccttcgacat caccaagttg ggcgccttcg gcaatggcaa 180  
 gacagacagc acgaaggctg tacacgaggc atgggcatct gcgtgcggcg gcaactgggaa 240  
 gcagacaatc ctcatacca agggtgactt ccttgctcga caactcaact tcacaggccc 300  
 ttgcaagggc gacgtgacca tccaggtgga tggcaatctg ctggcgacca cggacctaaa 360  
 ccagtacaag gaccatggta attggatcga gattctacgt gtggataacc tgggtca 416

<210> 42471  
<211> 282  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-006-Q1-K1-F12

<400> 42471

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taacaggatg gggttgggcg ccgtccttgc ggcgctcgtc gaccgcgggg cgtgcggggcc 120  
cccgaatgtg ccacccggtc ccaacatcac caccaactac aacggcaagt ggctcaccgc 180  
tagggccacc tgntacggtc agcccaacgg tgccggcgct cctgacaact gcagtgcgtg 240  
cgggatcaag aacgtgaacc tgtcacccta cagcggcatg ac 282

<210> 42472  
<211> 416  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-006-Q1-K1-F2

<400> 42472

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atggaagatg ctctttgcac ttataagtgt atgagagagc aaaatatcgg acccacatct 120  
catacttttt gtcatatgtt gtgtgggttat tcttcaatgg acatgcttag ggagatcacc 180  
atgctgtggg gagaaataaa gcgcagacat gaatatggag agctagattt gaatagggac 240  
ttgcttgata gcttggttnt gaattttctt aaaggtggat atttttcgag ggtgatggag 300  
atcattagtt acatgtcaaa acataacatt tactgtgaca aggggaaata caggcgtgcc 360  
tttctgaagc tacacaagaa cctgtataag aatttgaatt cattgcatga caaaac 416

<210> 42473  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F3

<400> 42473

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agttaatgag tttgatgagg cctgcaagaa tgcaactggg gtcaacatca aaatggtgtg 120  
cctcaacaaa aggcctggat attatgcata tatatacagc gacccaacaa agatcaacaa 180  
ggagctcaac tggacagctc agtgtaccga tctcaatgcg cgcctatctt tcgcatgggt 240  
gtagcaaatg tcgcattcgt ggtgctatgg gccaaaactca atata 285

<210> 42474

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-F4

<400> 42474

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tacatgcata ttggcaagac aagaggcaga aaaggggaat gccacttatt cgacattttc 120  
agtcggctat gtggaagatc tacgagcagc agctgcatga atgggaatca aaagtatgca 180  
gaatgcagag ttcgtcaaatt gggtagcaag aaaagaaatt gcctcccaag cctgcattgt 240  
ttgccttctg tttgaggcct cgtggactcc atgtaccata caagggggcca aagcagcggt 300  
ctcataagaa gcttatgtcc acaggctgcc atagcttttc aagagagcat gatggctttt 360  
accggcaagt atcaagcang agatacaatg aatgcactgg 400

<210> 42475

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F5

<400> 42475

gcggccttct taccgtcgcg ttcaaattat cctcacaccc cgcagcatct ccacgccgtg 60  
gcacgtcgtc gcgtcgctc gtctccgccg agaagatggt cggaccaggc ctctacaccg 120  
agatcggcaa gaagaccagg gatctgctgt acaaggacta ccagacagac cacaagttca 180  
ccctcactac ctacagctcc aatggcggtg ctgtcactgc tactagcaca aagaaagctg 240

acctgatctt cagtgagatc cattcacaga taaagaacaa gaacatgacc gtagatgtga 300  
aagcaaactc agagtcaaat atcattacta cagttactgt caatgagatt gcaacaccag 360  
gactgaagac tatcttaaag ctttgctgtt ctgatcagag atctggaaag ttg 413

<210> 42476  
<211> 242  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-006-Q1-K1-F6  
<400> 42476

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tggcatggac tatatcctgg atatatacata ttctttgttc aatcagcatt gatgataaat 120  
ggttcacgag ttatataccg atggcagcaa gcatcgagca gttcattcct gagccggatc 180  
ctggcctttc taaaatgtgc ttatacattg gtgggtgctta actacttctg cattgggttc 240  
ca 242

<210> 42477  
<211> 431  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-006-Q1-K1-F7  
<400> 42477

cttggtaaaa gaatagggca gttaaagat gaaccgaatg gttatgaaga cgatgttcta 60  
gaagacgatg agatatctcc tagaaagcca gaagctaagg ctgtgtatgt taaagatgac 120  
ttctttgatt cactctcttg caaccaatt gacaatggag ggaggaacgg aagagtgaag 180  
ttctctgagc agaggaaaat agacaccgag acctttggtg actcagcaag gcatcgacca 240  
atgggcatcc gaggtagggc ccccggtggc ggcgctcgtg gtcgtggcta ttatgggtatt 300  
agaggatatg gatatacggg tagggggcgt ggctactctt acccaaatca ccagccgtga 360  
tacctcgggtg tctggaagca cactgaatgg caatggtaaa ttggcaaatt gcgtggtaaa 420  
ctgagattat c 431

<210> 42478  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F9

<400> 42478

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 catcgtgcat ggtgagaagg aagagtcaaa gggcatcgat gcgaaagcgt ccgggcctgg 120  
 tgggtccttc gacatcacca agttgggctg ctccggcaat ggcaagacag acagcacgaa 180  
 ggctgtgcag gaggcattgg catcggcgtg cggcggcact gggaagcaga caatcctcat 240  
 acccaagggc gacttccttg tcggacaact caacttcaca ggcccttgca agggcgacgt 300  
 gaccattcag gtggatggca atctgctggc gaccacggac ctaagccagt acaaggacca 360  
 tggtaattgg atcgagattc tacgctgga taacctgggc a 401

<210> 42479  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G11

<400> 42479

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 ctgcgctctg cttcgacatg accgtcggcg gcgccccggc gggccggatc gtgatggagc 120  
 tgtacgcaa cgaggtgccc aagaccgctg agaacttccg cgcgctgtgc acgggcgaga 180  
 agggcgctgg caagtccggg aagccgctcc actacaaggc ctccaccttc caccgcgtca 240  
 tccccgagtt catgtgccag ggcggcgact tcaccgctgg caacggcacc ggcggcgagt 300  
 ccatctacgg cgagaagttc cccgacgaga agttcgtgcg caagcacacc gtccccggtg 360  
 tgctctccat ggccaacgcc gggcccaaca ccaac 395

<210> 42480  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-E4



<400> 42480

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agagcatcca tcggcaatgt cgaacatcgg gcagtccttc caggccggca aggetgagge 120

ccagggcgag taccaggcgg agcacgcggc gcagtgcgtc aaggacaccg ccgcagccgc 180

ggccgacagt gcgcagctgc agcagcaccg cccacccggc accgttgagc aggtggcgca 240

gacgggccag ggcgtggcgg caggcgtaa ggacacggtg gcgggcgcgg cggttggcgt 300

cacgaacacg gtggcgggcg tggcggcggg cgtcacgaac acggtcacgg gcgccgtggc 360

gggcgtcacg aacacggtga ccggcgcg 388

<210> 42481

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C8

<400> 42481

gatccggagc agccgtagtc ccaccgaccc cgtcgccggt cgccctccat ctctcgccg 60

ctggctctcc atctttgtac agcttctctt ttcaataatc aagatgagcc gtgggtggtag 120

tgccggtggt ggtcaaagat ctctgggtta tctctttgga agcggtgagc cccccaaacc 180

agcagtggca ccagctgcaa gtgctccacc tgttgagaaa ccatctgctg caaagactga 240

tgcggccaag caggttgctg ctgtgggttac cagccaaacc aataactacc acatgggtga 300

tggtcataac actggcaact tacttac 327

<210> 42482

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C9

<400> 42482

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tccatcctgc tcgcatggt gatgctggct gcgctattcg ttgttggttt gtgcaccacc 120

cccctcacct tccaggtcgg caagggatcc aagcctggcc acctgacct ccccccaat 180

gttgccacca tatccgacgt ggagatcaaa gagcacggtg gcgatgactt ctccctttacg 240  
 ctcaaggagg gcccgactgg cacctggacg ctcgacacca aggccccgct caagtacccc 300  
 ctttgcatcc gctttgctgt caagtccggc ggctaccgca tcgccgacga cgtcatccct 360  
 gccgatttca aggccgacac cacctataag accacactca gcatactaac aatctctggt 420  
 gatgaattaa atttcaaaag agctcatcta gcgcacatgt 460

<210> 42483  
 <211> 344  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D10

<400> 42483

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 ttcggcagga tcggaaggct ggtggccagg gtggccctgc agagtgaaga tgctgagctc 120  
 gtcgccgtga acgacccctt catcagcacc gactacatga cctacatgtt caagtacgac 180  
 actgtgcacg gacagtggaa gcaccatgaa gtcaaggatga aggactccaa aacccttctc 240  
 tttggtgaga aagatgctgc tgtgtttggc tgcaggaacc ctgaggagat cccgtggggg 300  
 tcgggtggtg ctgaatatgt tgggtgagtct actggtgttt tcac 344

<210> 42484  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D11

<400> 42484

cccacgcgtc cgggagggcc ggcgtcggcg tgcctagctc gatcttgaac catagctagc 60  
 cagcatggcg cccagcagca gcatagcagt actgctgctc ctgctgctcg ccgtgctcct 120  
 ctccaacgtc cctcctcgg gcgccctggc ctctcgtcg tcgtctctgc tgcaccagtc 180  
 gtctccgtct gagagtgaga ctgagaccga cagtagcagc ggagaatctt cgtcgtcgtc 240  
 gtcgtcggag gaggaggagg ccggcgagaa ggagaaggag aaggagcaag agatggagaa 300  
 ggcggtcgcg gcggagaagg ctgccagca agagctgctc aagtaccca aggagaaggg 360

catcgtgtca ccgaccaacg gcaeggggtg gtacaaaggc atcggccggg agttcgtgga 420  
cgcccacaac gagctccgcg cgcgcta 447

<210> 42485  
<211> 382  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D3

<400> 42485

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ttgtaggaca tattcacctt gacaaggggc atttagaaag gataaacatt agtactcaag 120  
acatttctca aaaatgtcaa gaagtttctg ggagatttgg aaagaagaaa ggacaccttt 180  
gccacatctt taaaaaaatt acttttgcta cttgtgattg ttcattcact cagatgccaa 240  
tcgatggaaa gctacataag gttccatgtg tgcagtttgc tttttctgat gacattgtac 300  
tatccgagtc tattgagaga gcagtgaatg tgatagctga ctctgtctgc tcagtgtttt 360  
tagatacaat tattaanaagg tg 382

<210> 42486  
<211> 120  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D4

<400> 42486

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agtgggtggtt gaggtcactg agaacatgtt ggggtggcaag aaagttccag ttgttttggc 120

<210> 42487  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D5

<400> 42487

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agtgatgaag cgaatcggtta cttgatagaa gcatgtgcta agtatgatgt gaaatgtcca 120  
 cctcccaaaa cgacatcacg gttgcttgac aagttagttg ggcatcttctt ggaggagaca 180  
 tgtgtgaatc caacatttat catcaatcat ccagagataa tgagtccatt ggcaaagtgg 240  
 catacgtctc gacctggatt gactgagagg tttgagctat ttgttaacaa acatgagggtg 300  
 tgcaatgcat acacagagtt aaacgatcct gttgtgcaga gacaacgggtt tgaggagcaa 360  
 ctaaaggatc gtcaatctgg tgatgat 387

<210> 42488  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D6

<400> 42488

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 tggcgacccc ccgtgacgtt cggcgccatc ccggccgccc tcatcgcgct gggcgcgctc 120  
 gccatcccgg acaccccggc gtcgttcgtc aagcgcgggg acacggccac ggcgcgcaag 180  
 acgctgtccc agatccgggg cgtcggcaac ttgcgcaagg agttcgacaa cctggccgccc 240  
 gagagc 246

<210> 42489  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D9

<400> 42489

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 ttcggttcgt gcaccacccc actcaccttc caggtcggca agggctccaa gcctggccac 180  
 ctggtttctca cccctaacat tgccaccatc tctgacgtgg agatcaagga gcatggcggc 240  
 gacgatttct cctttacact caaggagggc ccagctggca cttggacgct cgacaccaag 300  
 gccccgtca agtaccacct ctgcatccgc tttgtacca agtctggcgg ctaccgtatc 360

gccgatgatg tcatccccgc cgatttcaag gccggcacca cctacaagac cactctcagc 420  
atctgatgag cctgtgatga gtgatgacga ataata 456

<210> 42490  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-E10

<400> 42490

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ctgcgctctc gatctttgta cagcttctct tttcaataat caagatgagc cgtgggtggta 120  
gtgccggtgg tgggtcaaagt tctctgggtt atctctttgg aagcggtgag cccccaaac 180  
cagcagtggc accagctgca agtgetccac ctgttgagaa accatctgct gcaaagactg 240  
atgcccggcaa gcaggttgct gctgggggta ccagccaaac caataactac cacagggctg 300  
atggtcagaa cactggcaac tttct 325

<210> 42491  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-E11

<400> 42491

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cgtactccac gttcctgaag ctctgcagg acaccaaggt cgcgggagag gcgaatcagc 180  
tccggtcggc gacgctactg gtcgtccccg aaaaacttgc caagcctctg gcgtcgtgctg 240  
ccgccgataa ggtgcggccg gcggtggaga accacgtcct tctcagttac ttcgacccca 300  
tcaagctgga cgagatgaag acacgcaccg tcatccttcc cagctgctc tccgtcaccg 360  
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<210> 42492  
<211> 440

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-E3  
  
 <400> 42492  
  
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 tgcgaggacg cgtggaaggg cgaggaagat gtccccgtcg ccgcgcacga cagggagtac 120  
 gggcggatgg cgcacatcgc cttcggattc acacaccacg ccgtcgcgcg cgcataatc 180  
 atcatgtcat atgcatgcat cgcttctctt ccttgctcga ttaattttca tgcgtccaat 240  
 gattcatatc tctatatgca tatctctctg ctctgccttg ttggctggct cttctcatca 300  
 ttccctagca catcgcatag tattagttgc atgcattata ttgatgatgc aggtatttcg 360  
 tcgagcaaca aaggcgact atcaaagggt tttggaatac caaaattag tgaattaagg 420  
 ggaactgggt ataaaaattt 440

<210> 42493  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-C7  
  
 <400> 42493  
  
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 caccatgtct ttcaccggca cgcaggacaa gtgcacggcg tgcgacaaga ccgtccactt 120  
 catcgacctc ctcacggccg acggcgccat ctaccataag acatgcttca agtgcagcca 180  
 ctgcaaaggg gtctctcga tgtgcagcta ctctccatg gacggtgtgc tgtactgcaa 240  
 gacccacttc gagcagctct tcaaggagac cgggagcttc tccaagaact tcacgccagg 300  
 tggcaagtca tcagacaagg gtgaactgac aagggcccca agcaagctgt cgtctgcatt 360  
 ttctggtacc caggataagt gcgcagcat 389

<210> 42494  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-B11

<400> 42494

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cgcatatgat tgcttcgacg ggcgcggtac tcaggaagcg atcaacaatt gtgtggagaa 180  
ttgtggtatg cctgtccttg ctgtcaacaa tgtttttgag agtgagatgg ccaagtttca 240  
ggaacgggtg aaccgggtcat tgatgggtctg tcaagataag tttgaagctg ccaagctcca 300  
gaagatgaaa acagatgcaa ctcatgaact ggaatcctgt gtcaacagat ctatcgatga 360  
cagcatcagg gccctcccat atgtggtgca gcagatgaag tccaccctca atatcaatta 420  
gaggcattat tacctttagc atatgaacca gatata 456

<210> 42495

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B12

<400> 42495

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cacgccaagc gagggccgca tctagatccg cgccgccgag ctgacttgac tattgcaagt 120  
ttgcaaccca ccgtcacgcc ttcttctccc cccgcgatct acccgccccg ggcgccgttg 180  
ctgctactgc tattactaat actactaccg cgtcgtagcg gaggcaggga cttgaggagc 240  
gggtgggttg cgatggccgc tgcggggagg aatgcgggag tcctcgcgct cttcgacgctc 300  
gacggcacc ctcacagcgc gcgcaagggg gtgacgccag agatgctaga gttcatgaag 360  
cagctgcgcc agcatgtgac agtgggcgtg gttggcggat ccgatctggt gaagattacc 420  
gagcagctcg gcagtacagt tattactgat tatgat 456

<210> 42496

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B4

<400> 42496

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 cggggccgcg gtcgtccctc tcgccaggcg tatgctccgc ctccgcaccg cccctgcttc 120  
 gagccccacg tctcgtcct gagcttcgcg gtccctcctc gcctctcctc caagaacaca 180  
 tagggactat tgtgaaggta ttgatttggg atttctggag cttattatca gctcgtcgta 240  
 cgtattcgca tgtcactggg gacggagtag cagaataaat gaatgaaatg atcattcaag 300  
 tgctcagttc agccactgtc tattttttta aaaaaaagct cctgacgagg ccattttcga 360  
 actggacacc ctctatagag aagacct 387

<210> 42497  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-006-Q1-K1-B5  
 <400> 42497

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 ccatctagat ctagtcaagg cgtgctagct ctcaaagcct taaagcttac agactcgttt 120  
 atggatcttt accgtaacaa tggtttaact ggggagaagt acaacctctt ttctgtagct 180  
 catcattgta ctagtttgta caaatatatt ttatacaatg attttttgct gttgcagggt 240  
 aaggggagaag aaattgtcct gggttgatat ctttgaggag ataccattaa aaagttccaa 300  
 ctcagcgctt gtcagtgcct ttatgaaaga gctggaacct gagtcacctg taaccacgtg 360  
 tgacctgtac cgacttanat tgtaaaccgc cccctttatg aaaggaact 409

<210> 42498  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-006-Q1-K1-B6  
 <400> 42498

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 ggaggcggtg gcgaaggctg tggcgccgtt ggcgcccggc ccgcccggc gcgtgtcgtt 120



ggccggcacc agctacggcg ggttcgtggc gtaccacgtg gcccggttgc tgggccccga 180  
cgccgtggag cgggtgtggt cgccagctcc gacctgtca aggccgacgc cgacgaccaa 240  
gccttgctcc gccgcgccgg cgccgagcgc gtcgaggacg tcctgctgcc gcgctccccg 300  
gaccggctgc ggcgactggt gcagctcgcc taccaccgcc cg 342

<210> 42499

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B7

<400> 42499

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gtgaagctac cccacttcta ttgctgcagt ggagaaagag gaaacccaag cgagtcgaac 120  
tcataaatgt tttgttttcc tactttgctc actatgctac gtctgaaatc tggacatcgt 180  
aataccaatg aaataaattg tcagatcgct cttggtattc accttgttct ccttccaagc 240  
attgaatcaa tacacactta ctctagtttg aattcaaagt gtaagaccat catcaagagc 300  
ctttctaatt ttctgatatc atttgagtaa aacttatttt ttat 344

<210> 42500

<211> 290

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 42500

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gaagttgtgc cgtcttccac cggccccgag tccaaaggcc tttattttta gaagaaaggt 120  
gactactaca gataccttgc tgagttcaag actggagctg agagaaagga cgctgctgag 180  
aacaccatgg tggcatacaa ggctgcccag gacattgctt tggctgagct tgctccaact 240  
caccctatta ggcttggact ggcactcaac ttctcagggtg tctactatga 290

<210> 42501

<211> 415

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-006-Q1-K1-B9

<400> 42501

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 cgtcggcacc tccgcttcaa gatgcagatc tttgtgaaaa ccctgaccgg caagactatc 120  
 accctcgagg tggagtcgtc tgacaccatt gacaacgtta aggccaagat ccaggacaag 180  
 gagggcattc cccagacca gcagcggctc atcttcgctg gcaaacagct tgaggacggg 240  
 cgcacgcttg ctgactacaa catccagaag gagagcacc tncaccttgt gctccgcctc 300  
 aggggaggca tgcacatctt tgtgaaaacc ctgaccggca agactatcac cctcgagggtg 360  
 gagtctctg acaccattga caacgtcaag gccaagatcc aggacaagga gggca 415

<210> 42502  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-006-Q1-K1-C10

<400> 42502

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 caaggcggag aagaagatcg cgtacgacaa gaagctgtgc agcctgctcg atgagtacac 120  
 caaggtgctc atcgccctcg ccgacaacgt cggctccaag cagctccaag acatccgccg 180  
 gggcctcagg ggcgactcgg tgggtgctcat gggcaagaac acgctcatca ggcgctgcat 240  
 caaagtctac gccgagaaga ccggcgacca cacctttgac ccgctcatgg acctgctcgt 300  
 cggcaacgtt ggctcattt tcaccaaggg agacctcaaa gaagtgcgcg aggaagtcgc 360  
 caagtacaag gttggggctc ctgctcgtgt tgggtctggtt gtcctgttg atgttgctga 420  
 gccccctggc aacactgggc tggat 445

<210> 42503  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C11

<400> 42503

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gggcgggggcc gcgatgtcgg tgcggatcaa ggcggttgta gaccggttcg tgaaggagct 120  
gcaggaggcg ctggacgcgg acatccaaga ccgcgtcatg aaggagcgcg agatgcagag 180  
ctacatcgag gagcgcgagc gcgaggtcgc cgagcgggag gccgcctgga aggccgagct 240  
atccccccgc gagggcgaga tcgcacggca agaagccagg ctgaagatgg aaaaggagaa 300  
tttagagaag gaaaaaagcg tcctcatggg aacagcatcg agccaagaca accaagatgg 360  
agcccttgag atcactgtca gtggtgagaa gtac 394

<210> 42504

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-C12

<400> 42504

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ggccccggga agtgggtcgcc ggaggtgagg aagacgtaca acctgctgga cacggtgagc 120  
cggcacacga tccaggtgta cccgcggtca tggacggcaa tcatgctgac gttcgacaac 180  
gcgggcatgt ggagcgtgca ttccaacatc tgggagcggg actacctcgg ggagcagttc 240  
tacatcagcg tcgtctcgcc ggcgcgatca ctgcgcgacg agtacaacat gcccgacaac 300  
gccctccgct gcggcaaggt cgtggggctg tcgctgtcgn cgtcctacgc ccccgcgcg 360  
taagacgacg aaggcctcgt tttctcctcg tggcttgacc atccaatcca aactcataag 420  
aacaaatcgc aaagaagcgt agtgaagggg aacaaatgaa t 461

<210> 42505

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C2

<400> 42505

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cctcaaggcg ggggatcata tctactcctg gagggcggcg tgggtctacg cgcatacagg 120  
aatatatgtg ggcgatgata aggtgatcca tttcacaaga ggaagaggac aggaggtcgg 180  
aacaggaact gtcgtcgata ttattcttgt gagttccacc ccaaaacgaa gcaacacgcc 240  
ttgcccgggtg tgcaccgacg aaaccagcga cagcagcaca gagacgaacg gcgt 294

<210> 42506  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C3

<400> 42506

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atgcttttga gaatagatga cattgtcagc ggtatcaaga agaagcaggc tcttgagacc 120  
tcagctccca agcaacccca aattgaaact gaggggtgatg ccgacaatga gcagatgatc 180  
ccagagttag tagaggctgt gaccaacctg cactagcaaa gttattatct actagtgccg 240  
gaatagcact ttgaatagag ttcattttat ttgagtgttg gtggttagcc ttaggtttta 300  
tatatagctt gatacactcg tccgagggtt ttttgtaatg tggttgctgc gcattttgct 360  
ttggactgat ggacgaactt tgcttggtgg atgccgaaa tctacctaata accacgttat 420  
gcttgtgggt tcc 433

<210> 42507  
<211> 181  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-C4

<400> 42507

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gtggggcagg cccaggacgc cgtgaagctc ttttaaccgg tgcacttcga cgatgtccac 120  
gtgaacgata tctcgtgtaa cgactacctg ggtgtgactg tggggaaaca cagcacattt 180

<210> 42508  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C5

<400> 42508

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 cgtcgagaaa aagagtcaag aggctcttga gctgctgctt aatataacgg ccgatgccgg 120  
 ttccaactgt cttccaatg tgggtgctgat tagcacaatc attgatggct tctttaaaga 180  
 aggtgaagtc gacaaagctt acttccctgtt tgatgaaatg attggccagg gggttccacc 240  
 tgatgttgtg acatacagct cactcattga tggcc 275

<210> 42509  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C6

<400> 42509

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 ggaggtgttc tcccgcatcg accacaagtt cgacctcatg tacgccaagc gtgccttcgt 180  
 gcaactggtat gtcggtgagg gtatggagga gggcgagttc tctgaggccc gtgaggatct 240  
 ggcagcgctc gaaaaggact acgaggaggt tggcgctgag ttagatgagg gtgaggaagg 300  
 tgatgatggt gatgagttct agaagtttcc tgatgc 336

<210> 42510  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B1

<400> 42510

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acgacgctgc gtgccgccgc atcggcaggt acgccggcgc ggcggtgctg tccgtcgact 120  
accgccgctc gcccgagcac cggttccccg ccgcctacga cgacggcttc gcggcgctcc 180  
gcttcctcga cggcggggccc gggcccgacc ccgaccccgg cgcgatcgcg ggcgccccgc 240  
cgatecgacgc cgcgcgctgc ttctcgcggg gggacagcgc cggcggtaac atcgcgcacc 300  
acgtcgcccg ccgctacgcg ctggaccctt 330

<210> 42511  
<211> 403  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-005-Q1-K1-H4

<400> 42511

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atgaagaagg tcctctgcgc cgcctcgtc gccgcgcct cggccaccgc cgtgctggcc 180  
tcggtcgcct ccgaggcgcc ctccgaggcg cccgcggcg cggccggtgg tgcggctggc 240  
cctagcgcaa gcggcgccgt cgtcgtcgtc gtgcccgccg tcggggcgct cgtcgcctcc 300  
ttctcgcct actacctnca ctgagcgacg acgcgcgggg cggcaacggt gggatgcac 360  
gtgtttggtt catccgatta attaattggt ttttttattt acg 403

<210> 42512  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H5

<400> 42512

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caagcccgcg gcttcgtcga agccgaacct gttcgactcg gactcggact cggagtccag 120  
caataagccg gcgaacaagt ccggggcgctc gtcgtaccag gccccgcgc acgccaagaa 180  
gcggtacaag gacgggttcc gggactcggg cgggctggag aaccagtcgg tgcaggagct 240

ggagcactac gcggcgtaca aggccgagga gacgacggac gcgctcgccg gctgcctgcg 300  
catcgccgag gacatcaggc aggacgccag cgacacgctg atcacgctgc acaagcaggg 360  
ggagcagatc agccggacgc acgagaaggc cgtcgag 397

<210> 42513  
<211> 448  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-005-Q1-K1-H6  
<400> 42513

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accggtgggc ctgagattcc cttccacccc ggtagggagg acaagcctca gccccacct 120  
gagggccgcc ttctgatgc cactaagggt tctgaccacc tgaggcaagt ttttggcaag 180  
cagatgggct tgagcgatca ggacattggt gccctctctg gtggccacac cttgggaagg 240  
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aactcttact tcaaggaact tctgagtggg gataaggagg gccttcttca gctcccaagt 360  
gacaaagccc tgctgagtga ccctgttttc cgccctcttg tcgagaaata tgctgcggat 420  
gagaaggctt tctttgatga ctacaaag 448

<210> 42514  
<211> 466  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-005-Q1-K1-H7  
<400> 42514

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gatggtttgc ggtgagaatg acacctccat taatgtgaca atacctgttg tcatgatacc 180  
acagtcagca ggaaagaagc tgaagaactt cttgcatcat ggagcaagtg tggaagtgca 240  
gctatattca ccaaatcgac caactgtgga cctttcagca tgcttcttat ggataatggc 300  
tgtaggcacc atagtctgtg cttcactctg gactgaattt gttacatgtg aacagggttg 360

tgagcgttat aatcagctga ccagaaagga tggacctgac acggaataa actacagaga 420  
agattaagag gtcttcgaga tcagcgcgaa aggtgctttt attttt 466

<210> 42515  
<211> 474  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H8

<400> 42515

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gcaaaaacgt tccaagactt gttccaggat ggactaagcc catctgcatt ggaaggcatg 120  
ccttcggtga tcaataccga gctaccgatg cagttctgaa ggggcctggg aagctgaagc 180  
tagtttttga gggaaaagaa gaacagattg atctggaggt attcaacttc actggtgctg 240  
gaggagtgc cttgtctatg tacaacaccg acgagtcaat ccgagctttt gctgaggctt 300  
ctatgacaac tgcttatgag aagaaatggc cactctacct tagcaccaaa aacacaatcc 360  
tgaaaaata tgatggcagg ttttaaggaca ttttcagga ggtctatgaa gctgactgga 420  
agtccaaatt tgaggctgct ggaatatggt atgagcatcg tcttattgat gaca 474

<210> 42516  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H9

<400> 42516

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gatcctcggg ggcattgcaa ttgctcaccg gagttgggcg ggtatgatag gtctgcaccg 180  
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aggatgtcgc gatgagttca tgagaagtct agaccgccgt ctcccagtca actatggttg 300  
ctggatcgtt gtctatgcat gatgtaatta tttagttatt ttgtacagaa ctctattat 360  
gtagtaaaga cattcgtttc tattccatga gtcattcatat gtgtgagact tgatcctagc 420



acacatttga ttcgcgcccg ggtttgtccc tta

453

<210> 42517  
<211> 210  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A1

<400> 42517

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gcggcgagcg gtggccacga tgacgactaa taagcccctt ctctcctcg ccctggcgctc 120  
cgcgctcctt ggtgcggcgc cggcgcgcgc gaacgcgccc ggcgggggcgt tcagcaactg 180  
cgtggcgatc aaccagcaca gctactcgct 210

<210> 42518  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A10

<400> 42518

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gtattggaac tgtaccggtt ggtcgtgtgg agactgggtg catcaagcct ggtatgggtg 180  
tcacctttgg tccaactggc ctgactaccg aggtgaagtc tgttgagatg caccacgagg 240  
cgcttcaaga agctcttccg ggtgacaatg ttggcttcaa cgtgaagaac gttgctgtca 300  
aggatctcaa gcgtggggtt gtg 323

<210> 42519  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A12

<400> 42519

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 cggccaattt ctggttcccg gtcagctagg ggaagcattt ctcggtcccg tatcacattt 180  
 taaaaatatg aaagtcaatt ttttttgttc aaaacgaaat ttccgaacag tgaatcgaaa 240  
 aagtgaagcc tggtccttac tatgttcaag gatttttgcct ctctccatcc cacaattttc 300  
 gagcagtatg tcagcttaga attaagatta tttgggtgctg catcattgat gcagattaat 360  
 ataatgaggg ccagaacatg gcacatgtta cttttgacaa actaaaaatg aatcatcact 420  
 gattcttaaa 430

<210> 42520

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A3

<400> 42520

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 gttgccaccg gaggtggtgc tggtatccga ccaattaact ggagatatat gaagaggggc 180  
 ctatctgttt ggtagatgt gcccttggat gctcttgcta ggcgatttgc taaagtggga 240  
 actgcctctc gtctcttctt ggaccaacca tctgggtgatc cgtacgcaat ggcttttttt 300  
 aagctcagca tgcttgaca gcaaaggggt gatgcttatg caaat 345

<210> 42521

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-A4

<400> 42521

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 aagcaggaac gatccatcat ctgctgttgt aattttagtc tgttgccagg aggtagatgt 180

agcaaggcag agctgtaaga acccattatt attgatcttg tagcagtctg aggtttttgga 240  
aattgtatca tatactacct ccgttcttga atatttgtcg cctattgttt caaaaaacga 300  
cacataaaaa aattaaataa gaatggagag tatttttatg ctgctgctat gcacggctca 360  
aaaaaaaaan nnnnancnan nagnanaata aattttttta acatcatat 409

<210> 42522

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-A5

<400> 42522

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cgtcgccaac cgtagcaaga acatcaccac cgcccagcaa taatggcgca gagcatgagg 120  
attgtggcgc tggccctggt ggccctgctg gtggtggcng ctgcccgcgc cgtggccacc 180  
gcgtacggct gctacgacga ctgctacgag cgctgcgcca acggcaagaa agaccccgcnc 240  
tgcaccaaga tgtgcaacca ggcgtgc 267

<210> 42523

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A6

<400> 42523

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tgatttcgat gaggatgaac tggaagccga acttgaagaa ctggagggag cagagttgga 120  
atctcagctt ctggagcctg ttgcagctcc tccggtgcat ccagtgcatt cccagccaa 180  
caagcaacca gcgcgccctg ctccacagaa agctacagct gaagatgatg agcttgctgc 240  
actgcaagct gaaatggcat tgtgatcagg ttccaatta agaggtggaa tgtgtatatg 300  
aatggcggtta tgctaccaag atgaaagttg agtcaggatt tattatattt gccatgtgta 360  
taatcttggg ggatatttgg caagcaggaa aaaagctgct ccaagccagt gtttggttca 420  
atgattttgg g 431

<210> 42524  
 <211> 139  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-A7  
  
 <400> 42524  
  
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 gatggagaat aaataaaatt aaagtattaa aaaaattata aatccataaa taaaattaca 120  
 tagagtaact taaaataaa 139

<210> 42525  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-A9  
  
 <400> 42525  
  
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 aggggtagag aagaggcaac atgggcacaa agatgaagaa ggggatcctg aagccgttcc 120  
 gctatatctc aaccatcatg gatggtaagg aggctgaaat gcaaattggg ttcccgcagg 180  
 atgtaaaaca cgtggcacac atcggttggg atggctcctg ctccaccaac aacaataaca 240  
 acaacagcaa caacaatagt ggcgggagcac ctagctggat gaaggattac cactcggcac 300  
 cgcttgactc gtctctttt aggagtgaga gtgggggcac ggctgctgca aatccctggg 360  
 cttctcaaga gatagtcatt gatggagcaa gcgtcggaga aacctccttc agggacacga 420  
 aaagcg 426

<210> 42526  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-005-Q1-K1-H12  
  
 <400> 42526  
  
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ccggttttggg ttgggggtata cgtctgaaag gactccgcga ttttgccctgg tctgttgatt 120  
 cacttgtcag ttgctgggtct gtgtccgtat ttttaattgga agggccttgc aacttcgtca 180  
 ttcttcatgc tctgtgtggg ttttcgaaat attcttttta gaagggggag gcatggtgca 240  
 ataaaatgaa atagagagaa attgcagcaa ttctttgtta tcttagcaac accttttctt 300  
 cttccgagag cactatgtac aagggtgacat tataaaagat taagatagtg aaggccttat 360  
 tttcgcgagg ctaatgtaca ttcattctgc aagtgttgca actcttttga agt 413

<210> 42527

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G1

<400> 42527

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 cgcttttcaa ggccttcgtc gatgtcggcg acaggtactg acacctatcg ctcggcgtca 180  
 agtgctccaa tgaggtcac accgacattc gaggcgccat catgctgccc aagctgtcga 240  
 gagtgccag tacggatgcg ctactgggga aacttgatcg gacatccgga cactgtgctc 300  
 tgcaagggtca ctcggcgaat gctgggtccaa catcggtgcg attgtgcc 348

<210> 42528

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G10

<400> 42528

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 aaaataatga agagccgcag catggcatca tcggccgcgc tcttggtgct agccctcgcg 120  
 ctagtggcgg ccaccgcccc acaggtagcg gaggcaaaga agaagagagc ggcggagagc 180  
 ggcgaggcgg cggaggcgaa gaagatccag gacgacttct gctcgacgct gtgcgagggc 240  
 aagaagggga cggacctggt cgtgtgcaag gagtcctgcg ctctctccca gcagtccaac 300

ctggtgctgt acggcaggat ccagtgcaag ggcaagtgca ccgagcagaa gggcatcacg 360  
gcgccggcca tgaaggtctg ccaggaggag tgcgacaagg cgtacgtggt g 411

<210> 42529  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G11

<400> 42529

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gcgaggagg agagagacag ggggagggga aggccgaggc ctaggaggcg tgggtgcagcg 120  
cgcgagcgcg ttcgttcggc atggaacaga acgacggctc gttcctcgcc gtgcgacgcc 180  
tctccggcgg cgccatccac caccatcgcc accactcttc gccggtgag gtcgtgggcg 240  
tgtccacggc gtggatcggg aaggggctta cgtcgtgctg gtgcgcgcac gggacggaga 300  
gcgacgggcg cctctccttc gatttgagtc ccattcagga agagtgttg cataggttgc 360  
agaaccggat agaggtgcag tatgatggtt caaatctaga gcatcaaaaa gcac 414

<210> 42530  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G12

<400> 42530

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tggccgtggt catcgtgggg agcaggaagg actcgcagac gtacgtgaac atgaagcgca 180  
tggcgtgcgc cgaggtcggc atctgtcca tcgacgtcta cctcccggag gacatctccg 240  
agaccgcgct cgtcgccgag gttcatcgcc tcaacgtga ccccgagtg cacgggatcc 300  
ttgtccagct tccacttcct aagcatatca acgaagagaa gatactgagc gagatttcca 360  
tcgagaaaga tgtggatggc ttccatcctc tcaacattgg caagcttgca atgaaaggca 420  
gagagccact gttcgtacca tgtacgcc 448

<210> 42531  
 <211> 466  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G2

<400> 42531

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 gcattgataa gactgttcag aaattgggtgg aggaacttga gaagaaatca aggccgggtca 180  
 agggtagtgg ggatattaaa gctgttgctg ccatatcagc tggaaatgat gaatttggtg 240  
 ggactatgat cgccgaagct attgacaagg ttggccctga tgggtgtcctc tcaattgagt 300  
 cgtcatcgtc gtttgagacc acagttgaag ttgaagaagg gatggagctt gacagaggat 360  
 atatctcccc tcagtttgct actaaccttg aaaaatctat tgttgagttc gaaaatgctc 420  
 ggattcttgt cactgatcag aagatatcat cgattaaaga aattat 466

<210> 42532  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G3

<400> 42532

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 gctggggcgg gtctgactgg gcaccggcgc cttcagtac gtggaccggg gcggcgggtgc 120  
 tgtcgggatg agggcgtacc acgagcgggt gatggaccac tacaacaacc cgtggaacgt 180  
 cagttccttc gacaaggagg accccaacgt cgggtactggg ctggtcggcg cgccgttctg 240  
 tggcgacgtc atgaagttgc acattcgcgt caactaggac tcccgtaaaa tcgtcgacgc 300  
 ctgctttaag acctttggct gctgcttcgt catagcgtcc tcgtgcgttg cttctgaatg 360  
 ggtgaaggga aaa 373

<210> 42533  
 <211> 403

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-005-Q1-K1-G4  
 <400> 42533  
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 tacaagaacg tcacggcgcc ccgcagggcc tcgtggcgga tcctctctc catcgagcag 120  
 aaggaggaag gccgcgggaa cgaggcgcac gccgcataca tccgcgccta ccgctccaag 180  
 atcgaggccg agctctgccg catctgcgac ggcctcctcg cgctcctcga ctcccaccta 240  
 gtcccatccg acggcgggtgc cgagtgaag gtcttctacc tgaagatgaa gggtgactac 300  
 cacagggtgcc ttgctgcgtt caagtcaggt gcagagagga aggatgctgc ggagagcacc 360  
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<210> 42534  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-005-Q1-K1-G5  
 <400> 42534  
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 gggccaccag caacgagtcg ctggagaatg ccttcgcctc ctacggcgag atcctcgact 180  
 ccaaggcat caccgaccgg gagacgggga ggtctcgcg cttcggcttc gttaccttct 240  
 cctccgagaa ctccatgctc gacgctatcg agaacatgaa cggcaaggag ctcgacggcc 300  
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<210> 42535  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-005-Q1-K1-G6  
 <400> 42535



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ggatagtggc gctggccctg gtggccctgc tggaggaggc agctgcggag ctcgtagaca 180  
ccgcgtacgg gtgctacgac gactgctacg agcgtgcac caacggcaag aaagaccccg 240  
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acgccgcgcc agctagatcg cccagcgcac tcacgcttc agctcgatat aatcgctgct 360  
ggcagacgaa cccacatatg attcgatcaa tgttactcct ataactactc gaccgcgcgc 420  
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<210> 42536

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G7

<400> 42536

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atgagggcgt accacgagcg ggtggtggac cactacaaca acccgcgga cgtcggttcc 180  
ttcgacaagg aggaccccaa cgtcgggtact gggctggctg gcgcgccggc ctgcggcgac 240  
gtcatgaagt tgcagatccg cgtcgacgag gactccggtg aaatcgtcga cgctgcttc 300  
aagacctttg gctgcggctc cgccatagcg tcctcgctccg tcgctactga atgggtgaag 360  
ggaaaaccaa tggatgaagt cttgacaatc aagaatactg agattgcaaa gcac 414

<210> 42537

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G8

<400> 42537

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tcgcgtgatg gattcggagg cacatcgac gcatggagat ctggggcaat ccactgtcag 180  
 tttgatgctc cggcatgtgc ttctccaat aagatttgaa ggtcagatgc tagtggatca 240  
 gcccgatggc aatcgaattg cccttgcttg agttgtgatg agcatttgga aatgctgctc 300  
 ttgcaaggac gttgaccatg aacacaagga aaatatgttt tttttctttg cttattaatc 360  
 tgcagattct agggcgccat gtttatttct ttgcttctat ctttgtttag tcagctagga 420  
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<210> 42538

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G9

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 tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240  
 cccgcggtt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300  
 gcatgaacgg caaggagctg gacggccgca acatcacct caacgaggcc cagtcccgcg 360  
 gcggccgtgg aggcggcggc ggccggcggt acggtggtgg ccgtggaagc ggccggctacg 420  
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<210> 42539

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H1

<400> 42539

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 tggcgatgag gtcgctagcg ctactggtcc tctcagcct gctggttggt ggtgtggcgc 180

aagcgggtgga gttggagatg gagttggtgc ctgctgatgc aattgcgatg actatggatc 240  
atgagccgcc gcaagagtgc ggcaccccg gtagcgtgga agaagcgtgc cgcggcgcggt 300  
cggagacgca cgcggcggtg gctacgacc actgcatggc gtcgcttggc gccgacccgc 360  
gcaacaagga ggccggcaac aagaacatgc acgcgc 396

<210> 42540  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H10

<400> 42540

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cgagatgctg ataccatgaa ctttgctgac attgagaaaag ggataaaciaa ccttgcaaag 180  
aaggcaaatg agggggcgct ctcgattgat gacatggcag gaggaacatt cactatctcc 240  
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aggccaatga tgttccttgc gctgacatat gaccacaggc tgatcgatgg cagagaggct 420  
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<210> 42541  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H11

<400> 42541

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gacttctcct gaccgaccgg ggacaccaag aagggtacctg tggatcatct tagtaaaactc 180  
gacacgacaa ttgcgtaatt agacaattta gtaatccgct gcggtaggta ctttgctcgt 240  
cccttcttgc acaaacgaaa gagacagtga gaaaaaaaaa tgacttgggt gacaactgac 300

aagatgatga ggggagcacg cgcacagcga aacggcgcg cctggcacag tggcagtggc 360  
 accccgaagg cccgaacacc tactccgatg atccatctac tgcttggcct gaccggcgcc 420  
 gcggagct 428

<210> 42542  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F9

<400> 42542

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 ggcgaggcg aagaagatcc aggacgactt ctgctcgacg ctgtgcgagg gcaagaaggg 180  
 gacggacctg gtcgtgtgca aggagtcttg cgcgctctcc cagcagtcca acctggtgct 240  
 gtacggcagg atccagtga agggcaagtg caccgagcag aaggcatca cggcgccggc 300  
 catgaaggtc tgccaggagg agtgcgacaa ggcgtacgtg gtgaaggcgg ccgaggtcac 360  
 caaggcctgc agcgtcacct gcgccaagga gaagaacccg cgcctcagcg agaact 416

<210> 42543  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E4

<400> 42543

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 gaaaataaga acttgggtgag gcagatgaat ccaatacact tcttttttct agaaccagac 180  
 tgctccacgg catccttggt tatgaaaaga cagttggcca tcaagcaggt ggtagttttc 240  
 acctaggtat tttgtccaaa caaaagctgt ttgagatttg acccatgogt ttctttaaga 300  
 gcatcgtcga ataaaagatg actgcagtca gattgctttc ttttgatacc tcatattggc 360  
 ccatcggtg tgatggacat gtaatattca gttatggaac agccccattt ctatgcttag 420

cgtgctggga attt

434

<210> 42544

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E5

<400> 42544

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gggatggcaa caaagcaacg caagcatgca aagacaatta ctctactata gcgaaaggta 120

aatacaattt gctggccttt atatgacata gtctttccat gacaaaagcc gcgatcaaac 180

aaaatttaat tgacttgcac 200

<210> 42545

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E6

<400> 42545

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gattgcggga gaaatacttt ggggaattat tttcaaatgc ttccaggact cttgaagggt 120

tgtcgaggat agaatcatcg actatctcag tggacatgct atatgatcct gatatccatc 180

tagaaaagaa cttgtcagct actgaagaac cacttaagca tgtggctagg tttatagaat 240

cttttgaatc agaatcaagg gaaatttggc tgggtgatca caatgaaggc cactcattat 300

caaaattgat atatacagct gaagaaacga agttagtcac tggcaacaat aatgagaggg 360

tcagacatat ccaagttttg caccatcga agtgggtggca ttggctaagg acaacaaaag 420

c 421

<210> 42546

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E7

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 ctccgccttc gctccgcgcc actaccaccg ccgcttgacc cggaccgcgt ccgtggggcc 120  
 gtgccggggc gccccggtgg gactggccgt gcggtgagag aagagcgaca agcagaagag 180  
 gcagccgctc gccgcgctcg tgccccgga gcagcgcttc atgttcgagg gagacgagct 240  
 ctgcggcccc gacatatgga atacaacctg gtatcctaag gctgcagatc atgtaactac 300  
 cgagaagaca tggatatgtt ttgatgcaac agacaagatc ctaggcaggc tagcatccac 360  
 cattgcagta catatcaagg gaaagaatga acccacttac a 401

<210> 42547  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E9

<400> 42547  
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 accatctcca actgccactt caccaaccac aacgacgtca tgctcttcgg cgccagcgac 120  
 tcttggccgc aggaccagat catgcagatc accgtcgctt tcaaccactt cggcaggggc 180  
 ctggtgcagc ggatgccaag gtgccgctgg ggcttcttcc acgttgtaaa caacgactac 240  
 acgcactggc tcatgtacgc cattggcggc ggcgacgcgc caaccatcat cagccagggc 300  
 aaccgctaca tagcaccacc aaacatcgcc gccaaagtga tcaccaagca ctacgcggaa 360  
 gaaggcgtgt ggaagaactg ggtgtggcac acggaggacg acctgttcat gaacggcgcc 420  
 atcttc 426

<210> 42548  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F1

<400> 42548  
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gtggaagctc aaggagatct tcgccacggg catcgtgcta gggacctaca tggcgctcgc 120  
 cacggcgctc ttcttctacc tggcgcaaga caccgacttc ttcaccaacg ccttcggcgt 180  
 gcggtccatc aaggagaacg acaaggagct gatggcggcg ctgtacctgc aagtgagcat 240  
 catcagccag gcgctcatct tcgtgacctg gtcccggagc tggtccttcg tggagcggcc 300  
 cggcgcgctg ctggtgatcg ccttcctggc ggcgagctg gtggcgacgt gcatcgccgg 360  
 gtacgccaac tgggagttct gcaagatgc 389

<210> 42549

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F11

<400> 42549

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 tctatggttc tccgtgatgt ttgggaggag gaatggggac atgatgtttg agatgcagat 120  
 gtatttctcaa cttggacttg ctgaagagga caatgctgag gaaagtagaa gagaggaagc 180  
 ctttagaggt gttacaaggg attttgaaca atctgagcat gttatgtttt tggaagagag 240  
 ccttatagac caagctttta ataaaaaac aaaaaaaaaa aaaaaataac aaaaaaaaaa 300  
 ataaaaaat atactaaaaa aaaaagaaca taaatacata caaaaacgat gataaaatca 360  
 ataaag 366

<210> 42550

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F12

<400> 42550

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 tgaaactatg ttgggtgtat cctagtgggt ggttgagcat taatggctca tattttgtca 120  
 ggtctatgtg tcgccgtgaa acttttaatc aaatcagttc actcttttgc ct 172

<210> 42551  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F2

<400> 42551

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 aaaaggagaa ttgaaaaaac aaaaaaaaaa aaaattaa ataatgata ttatatTTTT 120  
 ttttaggaaa tctgataatt attttacatg atggTTTT tatatgacct ataactTTTA 180  
 aataaccttg gttgatcctc tttttttgcc tgatagtgat tttctTTTT gacgtcgatg 240  
 tgataaacat ggggattttt gcaatttaca ttcttatgaa gcttctatgc tattttgaat 300  
 atttta 306

<210> 42552  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F4

<400> 42552

gaaaggggaa gccgccactg acgctcgcg tacacccta gccgagcctc gctgttgggt 60  
 gctggacttc cctggggcct tctggggcga ttgcgcgacg ttgtcggggg tggatcgacc 120  
 actgtggcgg catcaattgc tcatcgga aggaaggccg ccgcagattg cgtctctccg 180  
 tggaccgcc tcaattcgac gtcattgctg cagtgaggac acgtgtcatc tgaagagcaa 240  
 gatggtacct ggaatctcaa gtcccaggtc aagaacagg accacaggat gaggcgcttg 300  
 gaggatgttg tgacgagttc gtgagaggtc taggccgtcg tctcacagtc aactttgggt 360  
 tgctggaccg ttgtctcctt ataatgtaat tatttatTTT ggatagaatt cctggtatgt 420  
 agtaaatatg tgatattcga tctgtgcc tgattcatca tat 463

<210> 42553  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F5



<400> 42553

gtccgatact gttactgatg atgagttgaa ggagatgttt ggaaaatatg gaaccataac 60

aagtgtctgtt gttatgcggg atagtgatgg aaattctagg tgttttggat ttgtcaattt 120

tgaaaatgca gatgctgctg ctccaggctgt tcaagagttg aatggcaaga tattcaatga 180

taaggaactg tatgtttggaa gagcacaaaa gaagtctgaa agagagatgg agttgaagga 240

gaaatttgaa aagaatattc aagaggtagc tgagaagttc caaaacacta acttgatatc 300

gaagaactta gatgataaca ttgatgatga aaagttgcgt gaaatctttg ctgagtatgg 360

caatattact tcttgcaagg ttatgcggga ttcttat 397

<210> 42554

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F6

<400> 42554

aacatgaggc accatgcctt attcaggcgg ttataaagtg ctcttactag aggtggacct 60

ggaggggttcc caagaccaat agaagtgcac gcccatgac ctcttcgcta tgtaggcgaa 120

atgctgggtt ggctacatca ggccctggca tctgaaagag agcttatagt tgtcttgctt 180

gacctgatg caatgactga cagtgggtcca acttttcgac gtcagtctgg tagagatgg 240

gattcttcca aaggagaacc tgatgtaact tctgtgcttg atagaatatt tgaaggagca 300

tgtcggccat ttaaagttcg agttgagcaa gttttgcagt cacagccaag cctgatagtt 360

tctttcaaac ttagcaatac cttggaattc tattggtaca cgatcaga actgctgggt 420

gaagacactg cgctgtgcaa tacaatatgg tcacttagag atg 463

<210> 42555

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-005-Q1-K1-E12

<400> 42555

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 agatcccaag ctcaccctag agggggaaga gggcgaccga aggcggcgat gggtttcac 120  
 atggacttcg cggagaatct gatcctccgt ctgatggagg acccggaaca gcgcgaccag 180  
 gttcggcggg agcatgtcta caagatgaag gagcgggtgc agcgcactaa ggcgcggtgg 240  
 agcctccctc tgcgccccta cggtttctgg accttcgacc gcttcaactc gcagctctcc 300  
 tgggatcccc agatcagcca ggccgccggc cgtcgggacc cctacgacga cctcatcgca 360  
 cgccactctg gctcgccgnc gtcttcctga acaccggttc cgatctttgc ccagaagtct 420  
 attgngcat caata 435

<210> 42556

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F7

<400> 42556

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 tcttggtcgg agaacctgcg aggaaggact aaggagtcga agatgactgc ggcggtgctg 120  
 tccgtgcgca cgacgacgac gtcgctgcta gcagcagtca tctgtgcct ctgcatcgtc 180  
 tccctctccc cccgcggcgc cgtgcgcgcg cgggtctccc ccggcgccag cccgatcgcg 240  
 gccacctgca tgacggggcc gtacccggag ctgtgcgtgg gggagctggg acagcggctg 300  
 ctggacgtgc agacgtcgat cgcgtccgcg gcgcccgacc agcgcgcggc caggatcgcg 360  
 ggcgccccgg tgcaggtgga cg 382

<210> 42557

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C8

<400> 42557

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 agttgatgct ttcaagaagg agatgatgag aagcttcagt atgagtgact taggactatt 120

gagttactat ctgggtattc aggtggaaca gaagtgtgga gtgactacat tatgccagag 180  
ctcatatact ctgaaaatac tcgagcaggc aggcattgaaa ggctgcaatg cttgcagtgt 240  
accgatggag aacagactaa aattgagcaa gaaagatgag tcaccgcctg ttgacaagac 300  
aaaatacaga agcattattg gaagcctgag gtatctagtg aacacaaggc cggatatagc 360  
ctttgctgtt gggattgtta gcagattcat ggaagatcca agagcaaaac actgggcagc 420  
agtcaag 427

<210> 42558  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D10

<400> 42558

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tctcctcctc gccctggcgt ccgcgctcct tggcgccggc ccggccgccc cgaacgcgcc 120  
cggcgccggc ttcagcaact gggcgccgat gaaccagcag agctacgcgc tgtacgcgca 180  
gaagtccgtc ggggacgggg gcaaggagcc cctggacaag aagctgtcgg aggcggagaa 240  
gaagaaggtc acgtacgtgg tggaccccag cggcaagggc gactacacca acatcaccgc 300  
ggcgctggag gatatcccg tgagcaaac caagcgctg atcctggacc tcaagcccg 360  
cgctcagttc cgcgagaagc tgctcctgaa catcagcaag ccgttcatca cgttccggtc 420  
ggaccccaag aagcccgctc tcgtggtctg gaa 453

<210> 42559  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D11

<400> 42559

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cagatcgttt ttccctcgag gtgagagtaa gatgaggag atcctgcata tccagggagg 120  
gcagtgcggg aaccagatcg gctccaagtt ctgggaggtg gtgtgcgatg agcacggcat 180

ctacccgact gggcggtaca tggggacgtc ggacgtgcag ctggagcgcg tcaacgtcta 240  
ctacaacgag gcttcgtgtg gtaggttcgt gccgcgcgcg gtgctcatgg accttgagcc 300  
cggcaccatg gactccgttc gcacgagccc ctactgtcag atcttccgcc cagacaactt 360  
cgtttttctgc cagtccggcg ccggcaacaa ctgggccaaag gggcactaca ccgagggggc 420  
ggagctcatc gactccgtcc ttgacgtcgt ccg 453

<210> 42560  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D2

<400> 42560

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cagctcaggc gctgagcgag tctatacgta cgctcgtcacc ggctggccac gcatgcgata 120  
accatctgat atggacggaa ctatatattg tattcctatt aatctggcat tttctaagct 180  
aattgttttt tttccaaata taccgtcgat ggaactccaa atgtaatgtc acgcaaagtgt 240  
gtgttttttca tcgattgaat ggataataat aaaaaggcat gctggcagtt actact 296

<210> 42561  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D3

<400> 42561

gctaagcagg tctgacagga tgtcgtggca gacatacgtc gatgagcacc tgatgtgcga 60  
gatcgagggc caccacctga cctccgtgc catagtcggc cagcagggcg ccgtttgggc 120  
ccagagcacc gcattccac agttcaagac agaggagatg accaacaatca tgaaggactt 180  
cgacgagccc gggttccttg ccccgaccgg cctcttctc ggccccacca agtacatggt 240  
catccaaggc gagccccggc ctgtcatccg cggaagaaa ggatctggag gcataactgt 300  
gaagaagaca gggcaagcga tgggtggtcgg catctacgac gagcccatga cccccggcca 360  
gtgcaacatg gtggtcga 378

<210> 42562  
<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D5

<400> 42562

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tcagcgcccc cgtgggtggcc gttgcgaatg ggatcgggga ggtggagcgc aaggtgcaga 120  
agagctactg ggaggagcac tccaagtgcc tcaactgtcga gtccatgatg ctcgactccc 180  
gtgccgccga cctcgacaag gaagagcgac ccgagatcct gtctttgctt ccctcttaca 240  
aagggaaatc agttctagaa cttgggtgctg gaataggacg ctttactgga gatctggcaa 300  
aagaagctgg gcacgttctg gctctagact tcattgaaag tgtgattaag aagaacaaaa 360  
gcataaatgg gcatcacia 379

<210> 42563  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D6

<400> 42563

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cttgttcctc ctggctcctt tctgcatcgt gcatggtgag aaggaagagt caaagggcat 120  
cgatgcgaaa gcgtccgggc ctggtgggtc cttcgacatc accaagttgg gcgcctccgg 180  
caatggcaag acagacagca cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg 240  
cactgggaag cagacaatcc tcatacccaa gggtgacttc cttgtcggac aactcaactt 300  
cacaggccct tgcaaggcg acgtgaccat ccagggtgat ggcaatctgc tggcgaccac 360  
ggacctaagc cagtacaagg accatggtaa ttggatcgag attctacgtg tggataacct 420  
ggcatcacc ggcaaggga accttgacgg gc 452

<210> 42564  
<211> 70  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D7

<400> 42564

gcacgtactc ggtctcgtga attccccgggt acgactccac gtcgtcacgt gtcattgtcgt 60  
tgactgtggc 70

<210> 42565

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D8

<400> 42565

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gatgggccac aaggaactac atgaccacaga gcctttgggg cccttcaatg tctgttagcg 120  
gtggcatcaa tgtcccagtg atgcagaccc cgctctgtgc taatgctcct gctgagaaaag 180  
gatgcaagaa cttcatgatt gattacatga tgggcggcgt ttcagctgct gtttcaaaga 240  
ctgctgctgc tcccatcgag cgtgtgaagc tgcttattca gaaccaagat gagatgatta 300  
agtctggtag gctatcagag ccgtacaagg gtattgttga ctgcttcaaa cgtaccatta 360  
aagatgaagg gttctcttcc ttgtggatgc gtaacactgc taatggtatt cggctactttc 420  
ctacttaggc tttgaacttt gcatt 445

<210> 42566

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D9

<400> 42566

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tacactaagt tgatccgatg gattatctat tagaaatcat ttgtgcatta tgtattattt 120  
tcaaataattt cttagatatt tcctttctta ttagatggat ttaaaaatga gatttggtat 180

<210> 42567

<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E1

<400> 42567

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cccaagaccc tgaagaaggc tagggacccc aagtacccaa gaatcagcac taccggaagg 120  
aacaagcttg atcagtacca aattctcaag tatccccctca ccacagaatc ggcgatgaag 180  
aagattgaag ataacaacac tctggtcttc attgtcgacc tcaaggcaga caagaagaag 240  
atcaaggctg ctgtcaagaa gatgtatgac attcaggcca agaaggtaa caccctgac 300  
agacctgatg gaaagaagaa ggcttacgtg aagcttacgc ctgactatga tgctcttgat 360  
gtggccaaca aaatcggcat catctaaa 388

<210> 42568  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E10

<400> 42568

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ccatacccat ggctcgcgct agcgctcgct tgcgtggtgc tgctctcctc ttcgtcgcca 120  
tggttggtggc accgatggcc gatgcaaagt acgctgatgc cccctccgct gatgcccccg 180  
cccccgctgc tgacgcacct gccgatggac ctatcggacc ggcaggtgca cctgggtccac 240  
acggcgctga gggactactc gacaatgagg acgacgacga tgactccacc aactaaggcc 300  
aagcacgtcg gtccgattgc attcggaaca agatatgaaa gaaaagtga agcaacgttg 360  
tttaaaacca aaaatacata ataatgtgtg gccatccacg atatgttctt gctctgctc 420  
tttttctatc cgttcgattt cg 442

<210> 42569  
<211> 456  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E11

<400> 42569

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ctccaccccg gagggcggtta gcctgctctg cactgccaaag gtcccatgca ccggcggtcac 180  
catggatgac gtcaacgtcg agtatagcgg caccaacaac aagaccatgg ctatatgcac 240  
gaacgccaaag ggcagcacca aggggttgctt caaggagctt gcatgcttct agaccctcca 300  
tcgactgacc catctctcta gttataattt ttctctcgtc cttgcattgc ccattagatg 360  
ctatccattg gtaacgcaca acagtaaaac gacagacatc cgacagctat attatgttcg 420  
acggtgtaac accctgaatt tgagggtata aaattt 456

<210> 42570

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C3

<400> 42570

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atgatgcagt gaaagccctt aaagttgatg aagcatgcac ccacatgaag tgttcttttg 120  
gtggcatttg gaatggtggt ggtggtgctg gacagaagaa tctcttttga gcatcctttt 180  
tctttgatag ggctgctgag gctggatttg ttaacgccaa tgcgcctgtc gctaagggtta 240  
aaccatcgga cttcagacaa gctgcggagc gcgcttgctc gttgagcgtg aaaaacgccg 300  
aggccacctt tcctggtgta cagaaggata gcattccata tatctgcatg gacctcgttt 360  
atcagtacac attactcgt 379

<210> 42571

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B1

<400> 42571



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 tgctgccatg gctccttgcc ccaccggcgt tcggtgtaca cggatatgggc atacgcaatc 120  
 actggtgcgg gagaaattca tcaccggtgg agtgcttoga tgggctagca tgcgccgcgc 180  
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 aaaagca 247

<210> 42572  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B10

<400> 42572

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 ttccgctgca tcttatccgt cctcttctgt gccgcggctg gcaccgccgt cgacaacgac 180  
 ctccccgact acgtcatcca gggccgcgtc tactgcgaca cctgccgcgc cgggttcgtg 240  
 accaatgtca ccgagtacat cgcgggcgcc aaggtgaggg tggagtgcaa gcacttcggc 300  
 accggcaagc tcgagcgctc catcgacggg gtgaccgacg cgaacggcac gtacacgac 360  
 gagtcaagg acagccacga ggaggacatc tgcgaggtgg tcttggtgga gagcccgcgc 420  
 aaggactgcg accaggtgca ggcggacagg gac 453

<210> 42573  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B11

<400> 42573

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 cgggctctca gcgacggcgt cagcagcttc cactcccgcc tctcgccagt tgcctcgcgc 180  
 cctcgctcc ggtcctccgc acaccgcgg ttacccttct aaaacacctc atccccaaat 240

gaagcacata ttcaagattg ctgcaatact ggtagcaatc tctgctatct ggattgctct 300  
 ccttgaaacc tccactgttc ctggaagtta tacttggttg cttcccatct acttggtagt 360  
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<210> 42574

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B12

<400> 42574

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 atctcatccc tgactgcctc cctgaggttc gatggtgctc ttaacgtgga tgtgaatgag 180  
 ttccagacca acttggtgcc ctacccgagg atccaactca tgctttctc ctatgctcca 240  
 gtcactctctg ctgagaaggc ctaccacgag cagctgtctg tggccgagat caccaacagc 300  
 gccttcgagc catcctccat gatggccaag tgcgatcccc gccatggtaa gtacatggcc 360  
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<210> 42575

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B2

<400> 42575

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 gacggggagg tctcgcggt tcggcttcgt taccttctcc tccgagaact ccatgctcga 120  
 cgctatcgag aacatgaac gcaaggagct cgacggccgt aacatcaccg ttaaccaggc 180  
 ccagtcccgt ggcggtggcg gtggcgggcg tggctacggc ggcggtcgcg gcggcgggcg 240  
 ctatggtggc ggcgcccgt acggcggtta tggcgggcgt ggcggtacg gcggtcgcg 300  
 cgaggggtggt ggcggcggt acggaggccg tggcggttac ggcggtcgcg gcgaagggtg 360

tggtggcggc tacggcgccc gccgccggc ctggaaggac tgatgtgtgg gccattctg 420  
gcttcagccg agttatctta tctatctat 449

<210> 42576  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B3

<400> 42576

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agcacgacgc gatgggccac tccaacgtgt ggaactcgca ccctaagaac tacggccctg 120  
gctcccgcgt ctgccgggtc tgcgcgaacc ctcacggtct gatcaggaag tacgggctca 180  
tgtgctgcag gcagtgttc cgcagcaacg ccaaggacat tggtttcac aagtaccgtt 240  
gaagaggcca ctgtgctgct gtggagaact tcctacatca aagaaatggg tccttcatta 300  
gaaggcctaa tttatgcgct ttagcttttt gttcagaact tgagactcat gtgttaaact 360  
cgacttgta aagttttgat ggctactttg tgcttggtgg accagctata atcagaagat 420  
tg 422

<210> 42577  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B4

<400> 42577

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ttactcgcag agcagcgtcc acgggtcaag ggccagtttg ttcgtcaaga tcatagcatc 180  
caaggaagct agggccagc tactgagctg gaactctatt ctattatcta aaaaagtcac 240  
tgcaagtgc tccactgcgg tctgcccgtg tcctgatgtc agattttgtc gaatagttgg 300  
aagcagtcac actgagttac agtttgctct gtatatttgc tgaagtttgt aatatatgta 360  
tgtataggct aacgct 376

<210> 42578  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B6

<400> 42578

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gagggcagcg acgtagccac caatgcagag ctcaagacgc caggaccaga agctacggct 120  
tcaactctca agacatctgc taatccagaa ccacgcgtgg atggcgatga catcactgat 180  
gctctctacg gtgaccatgg tcatcgacgg ctccctatct tcagggagat ctgtccagat 240  
tgagtgtcag catcagcatt ctcaacgtcg ctgatggatg catttcggcc tagctgtata 300  
ttctgtttta tctatcttgt acccagggctc ttggtagcaa ttactctgaa gggcatttc 360  
tagtttctta agagcttggt cggttgctaa ggg 393

<210> 42579  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B7

<400> 42579

cccacgcgtc cgctagtact cagccgccgc aatcaggac aggtagctcg agcgcgcgt 60  
ccacctgctc cgacgcgatg cgggccaaagt ggaagaagaa gaggatgcgg aggctcaaga 120  
ggaagcgcgg gaaaatgagg cagagatcta agtaggcgca tcttgtgacg aggatggcga 180  
gcttctcctg catcatggct gaggtcgtt gggatgatgg tctccctttg cagacgtcct 240  
ttgctgtaga cgtaggcgat gtaaaccgtc ctttttgatt cattctagca tgttctgaga 300  
ctgggtttat attgtaattt gaggataatt atatgatgct ctaagttaaa tcagattcct 360  
ggcaaaaa 368

<210> 42580  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B9

<400> 42580

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acttccgaat atgcccaccc agctgaaatt ttgttctctg gattcgccac agttgttggg 180  
cctgctctta ctggccctca tctgttcacc ctgtggctgt ggatgggtgt gagggatttg 240  
gagactgttg aagctcacag cggctatcac ttcccatgga gcccatcaaa tttcctgcca 300  
ctgtacggtg gctcggactt ccatgactac catcaccgag tgctgtacac aaagtcaggg 360  
aactatgcct cgacatttgt ttacatggac tggttgttcc ggacggacaa tggttatcgc 420  
aaggcaaaga gaccattgag gagcaagaag tga 453

<210> 42581

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C1

<400> 42581

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cggcgcgctg ctggtgatcg ccttcctggc ggccgagctg gtggcgacgt gcatcgccgt 120  
gtacgccaac tgggagttct gcaagatgca gggcatcggc tggggctggg gtggcgccat 180  
ctgggcgttc agcgtcgtca cctacttccc gctggacgtg ctcaagttcg ccatccgcta 240  
cgcgctctcc ggcaaggcct ggaacaacat caacaacaag acggccttca ccaaccgcac 300  
cgactacggc aagggcgagc gagaggcgca gtgggccacg gcacagagga cgc 353

<210> 42582

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C11

<400> 42582

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gaccacggcc tcgcgtccgg gtcggcgtgc gccaccgccg ccaacagcct gctccagcgg 120  
 gcggcgctct acttctctggg tggcgccgac gaccgcgagg cgctggcgta cgcggcgccg 180  
 atgccggaga ccgggaccat gtcgctgacg gtggtgcggg tcaagctccg gaactgggtc 240  
 gggatgggcg ggcgcgacga ggcgagggac gaggagctgc tgcaggagtt ctggagcagg 300  
 cacagggaca acgagcgggt ggtgtacgtg gagaagacgg tggaggacgc ggagggcacg 360  
 gcgtccgtgg tgcgcgccat gagcgagaag ttcgacctgc tcatcgtggg tcggcgccggc 420

<210> 42583  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C12

<400> 42583

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 atgggttgtt tcaggacagt ggcgcttacc tggagcaccg tctggccggc gtcgacaggg 180  
 tgcagatcaa gggcctcaac gcggggcacgc tggacctgac gaataacggc tggggccaca 240  
 tcgtcggcct cgtcggcgag cagaagcaga tctacaccga taagggcatt ggcagcgtca 300  
 catggaagcc agccgtgaac gacaggccgc tcacctggta caagaggcac ttcgacatgc 360  
 cgtcgggaga ggacccgatc gtgctggata tgagcacaaa tgggcaa 407

<210> 42584  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C2

<400> 42584

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 cccaacatca ccaccaacta caacggcaag tggctcaccg ccaggggcac ctggtacggt 180  
 cagcccaacg gtgccggcgc tcctgacaac ggcgggtgct gcgggatcaa gaacgtgaac 240

ctgccaccct acagcggcat gacggcgtgc ggcaacgtcc ccatcttcaa ggacggcaag 300  
 ggctgtggct catgctacga ggtgagatgc aaggaaaaac ctgagtgtc gggcaatcct 360  
 gtcacggtgt tcatcacaga catgaactac gagccta 397

<210> 42585  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A9

<400> 42585

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 tgagaacaaa gaaaatcttt ccaaattatg ggatattcta gccgtgtatg catggattga 180  
 caaagatggt gggtactgcc aaggaatgag tgatttatgc tcaccaatga tagttctact 240  
 aaaggatgaa gcagatgcct tttggtgctt tgagaaattg atgcgtagat tgcgaggaaa 300  
 tttcaaagtc acagatcaat ctgtgggagt atccaaccaa cttcaacatc ttgcatctat 360  
 tattcaggtt cttgacccaa agctacatga ccacctagaa actcttggcg gaggtgacta 420  
 cctttttgcg ttccgaatgt tcatggtgct at 452

<210> 42586  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H3

<400> 42586

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 gctatgtttt ccatcgttct caccacccac tcaccttcag ctcaattctc cacctattcc 120  
 ctgttctacc ctaacattcc accattttac tgatatcaat tacattctga actattctcc 180  
 tttacctaag aggccactg cact 204

<210> 42587  
 <211> 412  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H4

<400> 42587

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tgtgcattgt tgtgggtcct gaagatctgg ttacaagcct acaacttaac tgatatatat 120

cacatgatga tgataatatg tatattcatg gtgacacctt tgctctttga acatgttgta 180

gtctattgtg tagttgcaaa agaatatgtg aattaccagt cagtggagat tgagagggat 240

tccccggcta gaagctcaag cggattagga agtggctcat cttcatccag tggtagagta 300

cagtggagca aatgagtatc tatcaccatt aatgctgagt tatcgatcaa gtagctcggt 360

aattcgtaa aattcttgca gaatctgact tttgatgtac aggttatatt tt 412

<210> 42588

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H5

<400> 42588

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ccgccaacaa tggcctcaag gtactctatc ctgcttgcca caacgacact ggctatgttg 120

ttcgcattcg gttcgtgcac caccacctc accttcagg tcggcaaggg ctccaagcct 180

ggccacctgg ttctacccc taacattgcc accatctctg acgtggagat caaggagcat 240

ggcggcgacg atttctcctt tacactcaag gagggcccag ctggcacttg gacgctcgac 300

accaaggccc cgctcaagta cccctctgc atccgctttg ctaccaagtc tggcggctac 360

cgtatcgccg atgatgtcat ccccgccgat ttcagggccg caccacctac aagaccactc 420

tcagcatctg atgagcctgt gatgagtgt gacgaataat at 462

<210> 42589

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-004-Q1-K1-H7



<400> 42589

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gtgcagttct gcctggcggc actcggctcc gatggccgga gcgtcgacca ctgcctcgac 180  
taccaggtct actccgcat tgccgtgac ctctcgcgg ccaacctcac cgctacggcg 240  
gccaagatca acggcctgct ccggaagagc ggcggtccg ncgacgaggc cacgacgcgc 300  
tgtctccggt cctgtcaagc gttggacggc gacatggaac gg 342

<210> 42590

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H8

<400> 42590

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ttgaaggatc tgtttcaatc catacaacta actgatatat atcacatgat gatgataata 120  
tgtatattca tggtagacacc tttgctcttt gaacatgttg taatctattg tgtaattgca 180  
aaagaatatg ttaattac 198

<210> 42591

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-005-Q1-K1-A1

<400> 42591

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aggattagga tttggatttg gatttggatt tggatcgggt gtgtttcctg cgtaaccatg 120  
agcgagatca tgaagctaaa gcgtgggatc agcaccaaac caggagacca cctcgtccaa 180  
aatggccaac aacatccatg tcacgaatgg gaggagcaac agcgctactg gccctcgccg 240  
cgggcgcogn cggcgagccc gacggagtcg cccaggaccc caggcgggag ccagaagaag 300

gcgggttctgg gcaaggtgaa gagcaaggcc aagaaatgga tgcacatgct gcatcacagg 360  
aagaaacccg ngccaccgga ggagatgatg tggacccccca gggccggggcc tggacccacg 420  
gcgggacaag aca 433

<210> 42592

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A10

<400> 42592

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tcatggtcgt gggcgccgtc cttgcgggcg tcgtcgccgg cgggtcgtgc gggccccga 120  
aggtgccacc cggccccaac atcaccacca actacaacgg caagtggctc accgctaggg 180  
ccacctggta cggtcagccc aacggtgccg gcgctcctga caacggcggt gcgtgcggca 240  
tcaagaacgt gaacctgcca ccctacagcg gcatgacggc gtgcggcaac gtccccatct 300  
tcaaggacgg caagggctgc ggctcatgct acgaggtgag atgcaaggaa aaacctgagt 360  
gtcggggcaa tccagtcacg gtgtacatca ctgacatgaa ctacgagcct atcgctccct 420  
accacttcga cttgagc 437

<210> 42593

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A11

<400> 42593

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tcggcgcgatg gcctcgtgaa gccggaggca gccgcggcgc ccaagcccc cgccccaaag 180  
gccatatcgg acctgaggga cgcgatcgtg aaggggctgg gattccaggc cgaggggctc 240  
aaggtgtccg ggttcgacgt gcgagacgcg ctcgtggggc acgcggtggc gtacgagttc 300  
gacatcgagg tcggcaggaa ggtcctaccg gtgcgcctgc tggaggacgt cagccggtgg 360

gacttcgtcg acctcccat cttccgttcc caggccgacg ctgacgatac ggcgctcgcc 420  
gagatccggc gggccgggag ggggagcatc g 451

<210> 42594

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A12

<400> 42594

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attctcggtt tcaagcttct tccctggatt ttttaaggcct attttggatc ctattgcttc 180  
tgtattccac aaacttttct gtgggcgacc tgcaagacct gaatgcacag gccagacatt 240  
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ccagaaggca ctggagcaga gactggcaga gaagctggct gcggtcagga aggcggaggg 360  
cacgcctccg ccgaagcagc atcaggagga ggacgcggag aatgatgctt ctgataaagt 420  
ctgagcgtgc tttcagc 437

<210> 42595

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A2

<400> 42595

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gcatacagg tctcagacat agcgaatagg gaaacatgca agaagatata tgtgtccata 180  
ggacctactg tttagaacat tggtcacatt gacatgaaga taagctgcct tttcatgac 240  
tgcagcttca acatagctaa aacaacaaat ttttaattct taaaatgcct tttaaaggaa 300  
aaatggttca agcaccatta catagtcctt aatttgactg tatatattac ttttgaacag 360  
gttaattagg gtttaataaa gataacaaaa agg 393

<210> 42596  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A4

<400> 42596

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 accggccgta ctactatatc tacatacgac cgtgggacaa cgtcgaccgg agctcgatcg 180  
 ggcgagttgc cgcattggcg tggtgtcaa agttcctttg tttctttctt gatttgtgct 240  
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 atgtacgcat gtatgtgccg gcaccatttg gtcttgtgtt aagtttattc ttggattcca 360  
 atctctaata taaggtcctt tggtttgtgt gtgcatggtg gactcatacc aacttttggc 420  
 tttaaca 426

<210> 42597  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A6

<400> 42597

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 gaggtcacgg gccactcca catgagcatg gaggactgca tgaagagggtg caaggagatc 180  
 gctgctaagc aggggcctag ggacccttac aaggataaca aacttgacat cccatgaact 240  
 aattaatgct cctatatcat ctgcctatcc atgcatgcat tgcattgcgt atgcacactg 300  
 tgcgtgcctg ccacaaaagt tcgacaacac accgatctcg acggatttgt aatcgtgtcc 360  
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<210> 42598  
 <211> 252  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A7

<400> 42598

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acttggtgct gcgcctcagg ggaggcatgc agatcttcgt gaagaccctg actggcaaga 180  
ctatcacctt cgaggtggag tcttcagaca ccatcgacaa cgtcaaggcc aagatccagg 240  
acaaggaggg ca 252

<210> 42599

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A8

<400> 42599

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ctcattgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag tgagcgattt 180  
gttggggcat gcatgatcgc agacaactgc gccaatgtgt gccgcggtga gggcttcttg 240  
gccggcaggt gcagcacctt ccgccgccgc tgcattctgca ctaggcagtg ctaaacaaga 300  
tcgctcgatc gctcgccatg catcgacaac ctattcttaa taacgttcat tatctcgttc 360  
ttatttatga cgaatgtcat gtatgttctg gtgactgtca tgtatattct gatgactgtc 420  
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<210> 42600

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-004-Q1-K1-F4

<400> 42600

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 ggcaccggga ccaccttggt gaagcgcgcc caccggccgc cgacagcccg gcgctccacg 180  
 gtgaccttca ccctgggggc gccctgcggc tggcgcccg cagtggactt caacttattg 240  
 cgaccgggcg tgtacactac cttcagaaac ataaccgtg catgcagccg cgcacgcgac 300  
 gcgctatatg gtgcgacgtg cggctctggc gaatggcac tactgtctta cctgacacgt 360  
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 gatgacaaga agcccaagaa gtctaagaag aagaagcttt ttggaagaaa acatccattg 180  
 catcatgtcc tcggaggagg caaagccgcc gaccttgtgc tgtggaggaa caaacaggca 240  
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 cacctcctta ccttcctttg ccacgcacta attgtgtttc tcaccatctg gttcatctgg 360  
 tccaatgctg cgtcatttgt caacaggta cctncaaagt tcccagaggt cattctatct 420  
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<223> Clone ID: LIB3075-004-Q1-K1-F6

<400> 42602

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 actaaagttt gttgatgacg atggcaagtg cttcttggag atgagctact actttgagat 240  
 taggaaggag tggccaggag gccaatgatg tggccggacc agcagggcag agctgactcg 300  
 toggagtacg ctgttgtag agctcatagc aaaaagccaa gcagaaaata tgtgctatcg 360  
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<210> 42603  
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 <223> unsure at all n locations  
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 caaccgccgc ctttcgccgg caaagaacgc ccaccagatc cccccggcc tgctatggag 180  
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 aaaaccctga atagggggat atcggagttc gttgtgatgg cggcggacac ggagcctctc 360  
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 ccatcga 427

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 <212> DNA  
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 <223> unsure at all n locations  
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gagcgcagca gcggggtgtc catcgtggac acgcacatcg gcacgggcga cgactgcac 180  
tccgtcggcc agggaaacga caacgtggag gtctcccgcg tgcagtgcgg cccgggccac 240  
ggcatgagcg tcggcagcct gggccgatac tccggcgagg gcgacgtcac gcgggtgcac 300  
gtccgcgaca tgaccttcac gggcaccacc aacggcgctc gcatcaagac ctggggagaac 360  
tcgccgtcca ggagcaacgc cngcacatg gtcttcgaga acatgggtcat gaaggacgtc 420  
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<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-G10

<400> 42605

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gctctattaa cccagtgag agaacctatc cagaggagat gatccaaact gggatatcca 180  
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ggctccctca caatgaaatt gct 263

<210> 42606  
<211> 430  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 42606

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gccacctggg cgctccacat ggggtgcagc agcaacctgc ggtaccagac gctgaatggg 180  
atcgagtacc tgctcggcaa ggtcgcaccg gcgccggtgt tcaaggtgtc cgttggttgc 240  
ctccgctgca tgaacaacgt gctgggtggg atgtccttcg tgctgcttgc caggctgacc 300



ggnngcgcaga aatcagacaa gccagcgacg gtcgcggaag agaaggagag gttgatagct 360  
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<210> 42607  
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 <213> Zea mays  
 <223> unsure at all n locations  
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<210> 42608  
 <211> 177  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-004-Q1-K1-H1  
 <400> 42608

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<210> 42609

<211> 290  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-004-Q1-K1-H11  
  
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 attatgtcgg cctctgaagt ctttaactagc gactcattcc gcattctaca cccaatcttt 180  
 atgtataaac ttcttaacct cagctctaag ccttttactt ctcttctct tgacctcacc 240  
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<210> 42610  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-004-Q1-K1-F3  
  
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 tgctcattgc gaccacccat gtaagctcaa gcagcaaaag aattctagaa ggacacctag 180  
 ctattacttg gggcatgcat gacgtcagac aactgcgcct acgctttcca cgatcaaacc 240  
 ttcatctgag accatttcag cacctttcac cgtcagttca tctgcactaa accgcgctaa 300  
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 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cctcatcgcc gcctcggcca ccgtggcgct ggccgcggag gcgcgggctc cgtctccac 180  
 cagcggtcc tccgcggtcg caccgccat cgtcggggcc gccgtggcct cttcttcgc 240  
 gtactacatt cactgagccg ccggacgagg agccggagcc ggagggaga gaccaagggtg 300  
 gngggagaga cttggctgcg ctgcgctgct ctgctgctcc cgcgcattcc cgatgcgtgg 360  
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<210> 42612  
 <211> 366  
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 <213> Zea mays  
 <223> Clone ID: LIB3075-004-Q1-K1-E11  
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 cctctccaaa gcgggtccagg ccatgcccatt ctcacgcta ccaactcgt catatgcacg 240  
 cgcacacgca gaagtatggc gtcgatatga cacacctga atcatcactg ctactgaccc 300  
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<210> 42613  
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 <213> Zea mays  
 <223> unsure at all n locations  
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tctcgcacaa aacgacccca cataccacca gcttgtatcg ctcgctncgg gcccggcccg 240  
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tccctttttc ttaaacctct taaaaacccg acaatannaa gtattgtatg gataccacca 480  
ccannataat attatagacc angnntaaag tagtatttag ttctaaatat ataagtgtga 540  
aagttttggg tattagaata tatatctttt ccttttata 579

<210> 42614  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-E3

<400> 42614

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gcggccggcc agcgagcaca tccgccccgg cggacgacga gctcgcgggg aagagcgcct 180  
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<210> 42615  
<211> 436  
<212> DNA  
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<223> Clone ID: LIB3075-004-Q1-K1-E4

<400> 42615

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<210> 42616  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 42616

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 aagtttaciaa gatcggcaag gctggacaag agaccacga tgcctccaca gagtttgaca 240  
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<210> 42617  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-E6

<400> 42617

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 gatgccggcg tgacgagcca gtaccggcgg aagctggagg cgacggtgga gatgccactg 180  
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ctgggtgacc aggagggcac ggcgatgac gtgtcgtggg tgacggccaa tgagctgggc 300  
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<210> 42618  
 <211> 395  
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 <213> Zea mays  
 <223> Clone ID: LIB3075-004-Q1-K1-E7  
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 gccatgggca gggatctgag ggtccacttc aagaacacaa gggagacagc ctttgcgctt 180  
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<210> 42619  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-004-Q1-K1-E8  
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 caagaagagg agagcctgag gaagaagctg aaggacgcat cttccaccat acatgatttg 300  
 ctggagcaac tgaatgctgc caggaaaggc cgcaaagttt gaggaaataa actagtaacg 360  
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440

<210> 42620

<211> 440

<212> DNA

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gagactgaag gcaacatctt gaaagaagac gaaagcactg caaagtctcc ttggtggtct 240

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gaagcattct cgcgtttggg cgtaaaactgt ctagggaatg ggatgtgacg tcatggaatt 360

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<210> 42622  
 <211> 404  
 <212> DNA  
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<223> Clone ID: LIB3075-004-Q1-K1-D9

<400> 42622

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gaactcacia tataatctag cacagagaag ccaccaagat aactcaactt gtacgctaatt 300
gtcataaaaa tgcgaaaaat aaccatttat ccatcagtggt caccatgctc gatttgctca 360
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<400> 42623

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<210> 42624  
 <211> 343  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C3

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<210> 42625

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-004-Q1-K1-C5

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caataactga tgagttaagt ttgttttgct ttgaccatct cacatcgta tttctgtag 300  
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<210> 42626

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C6

<400> 42626

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 ttcttgtaa cacatttcca gtaatcaaag tactggccgg tacagtgttt gtgcccagtc 240  
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<210> 42627  
 <211> 489  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-004-Q1-K1-C9

<400> 42627

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 gtggcgctct ttgtccctgt cgtcctcgcc cgggtttccc ggtttttgag aggggaaaga 120  
 ggaggcggag gagagggatg gggaggacg agaggttccc ggtgtgggag gccgcgctcg 180  
 gcgccggagt cgcgcagcc ttcccgctg gactcgtcgg tgtctacctt tccatgccgg 240  
 actccgacta cagcttctc aagttgccac gtaatctga ggaactccaa atcctcactg 300  
 gccatcttga gaactatact agtgactaca ccctacaggt gttggtaggt tattgcgctg 360  
 tgtacatctt catgcagacc ttcgatgcc cagggacaat attcatgtca ctgcttgctg 420  
 gtgctctatt tgggcaactg cgtggccttg cactggtggt ctttgctgcc actgcangtg 480  
 cttcttcgt 489

<210> 42628  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D1

<400> 42628

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 aggctgtcat tctatcacct cgtgttttta gctgtctgt ctctctctta ttttgctcgtg 120

caccatgtat aaaataaaac taaactaggt taaccttgat ttgcgaataa cgttttctgt 180  
 ttctatggcc tagtcgcaaa cgaagtggca caaacattcc atggctaatac ttgatgcatg 240  
 agcatcggct gcttttgttt gccacctggc agagtggcag tgcatacctga tgcacagaca 300  
 gtataacaga cgtgtcattt gtcg 324

<210> 42629

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D10

<400> 42629

ggcgagtccg attctagatc aagcgagtcc tcccgtttca tcgcctcgga aaaaggcggg 60  
 aaggctgcaa cagaagaagc agcagcgaca gcgattcctt cctcgtacct ttcgttgccg 120  
 tcgcgcactc ggatcgacct ctctaggggt ttgcacgggc ctcccggcag ctctatccc 180  
 tcccctctcc ctccgcccgc cgcgcgcgcg gggagccacc aaaccctagg acggcaaatac 240  
 cgggtgcgatc acccacgggtg gaggcctcgt cggcgggccga gaggagccgc tcagggctcg 300  
 ggtcaggggt cgggtacctc gccggcgccg cctctggctg gtgggaccgg tggatgggtca 360  
 tgggagccag cggctccaag cttgagaagg ccctcggaga ccagttcccg gaaggcgagc 420  
 gctacttcgg cctcgagaac ttcggcaaca cctgctactg caacagtgt 469

<210> 42630

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D12

<400> 42630

gcacaatcct cgcacctatc tgacacattt ctattatca cctcctatat tactcgaagt 60  
 gcttcaaaac cgtgctgtgc actcaaattt tgctatcaca aacactacaa tgaaacacca 120  
 ctcatccata gaacacacta ttgctcctga ccaggctcca gctgcttcat acacctacc 180  
 tcctcctgcy ccagcatcca tgacatggcc ccacttaact cctgaacata cacaagatgt 240  
 tcatataaaa acatttatta caaatcccac ctacatattg taccactact gtctaccata 300

tatccttact caacaacgca acatcatcta aatctactac caccacgat taccaccaga 360  
tatccacgga tcatgcctta ataattccct acgactatat tctatcaatc gttacctct 419

<210> 42631  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D3

<400> 42631

cgcaggcgct caggttctgc gacacatgt acatgaacac gcaggacacc atcggcgcg 60  
cgcggcgggc catcacgttc aaggacaccg gcaccgcca gatcatgctg cagctcgccg 120  
tccaggactt cgactcgtgc gaccgcccct tcaccaggc cggcgctccc aaccccatgg 180  
ggaagtttga caaggagctc aaccagatgg ccaacaactg catggctctt gcaaacaatga 240  
tatgaaccac gcatgcaacc ccagcgtgag gtgccatcgc atgcatggaa tgcttgcat 300  
catttttcat ttaattaaga attcattgaa attatgagtt atatatatgg agtaactcta 360  
tgtatttggc cctgacctgc actattta 388

<210> 42632  
<211> 228  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D5

<400> 42632

cccacgcgtc cggatttctg cctcatgcgt gtaatgtttc gtcgtctact catgtagttt 60  
tattgcgatg tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaac taacactata aaagatccaa ccttacttac gaataaatgc aacttgataa 180  
cattttctat agtgcaaact aaattgaaca aacattccat tgtttaac 228

<210> 42633  
<211> 575  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-004-Q1-K1-D6

<400> 42633

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 attggcaaga gggagccaag ataccatcca ctcgtagcat cccacacgca ggtacggaag 120  
 agagggcgac taacaatgng tcgaggtgtg ngccttggtg gcgngcggt ggnntctgt 180  
 gccttcctng gtttagcgatc aggtgccgtc agggggccca tttcagcgct cgaggggaat 240  
 ggggtgcant nnttgatcaa tttganntca gctgcaaggg taccctgggc annactgcga 300  
 caaggggaact ctgggccccg agggccttcc cgcctcaggg gaaactccgc catacgacta 360  
 cactccgcgg tctgcaactc cgatcactcg gcttgtctgt cggtgatca aatatctctc 420  
 tggtnncgat gtgcgcgcca atgtcannat gtcgcaacgc gccgtgcatg gtaccaaagg 480  
 cctcaaagcg tgtgggtgctc gcgtgtgtgt tattatatta cacancatgc attnatacat 540  
 tgggtcgtcg atcgttactg gatgcatggc aactg 575

<210> 42634

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D7

<400> 42634

ttctgcgaca ccatgtatct taacacgcat gacaccatct gctcttctgg accggtcata 60  
 acgttcgagg gcgcctgcac ctccaagatc atgctgcaac tcttcgtcca agacttttac 120  
 tcgtgccacc gtccctttac ccaagcctcg cgttcccaac cccattggga aattttacca 180  
 ggagctcaac ccgattgtcc acaactccat ggctctttcc aacattttat taaccactc 239

<210> 42635

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C12

<400> 42635

cctaattccc ggtcgagcac tcgtccgctc ctccatcaact atcactgcta cctcaatgta 60  
 ttccacttca gcctcagctc gctcatgaag gagtttaatc agtagggcgg ggctgcacac 120

tacctgcctc accctctcat acttatcacc ggatatcatc atcaagaaag gctactactg 180  
 caccctggcc tacatctgat tcttcagtct cactctattc gtactcctcg cctgctacct 240  
 ctcgttccac gactcctacc tagtgcatat gtacctcatg atcaccatag cctacctcaa 300  
 gtacc 305

<210> 42636  
 <211> 77  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A8

<400> 42636

ttcccggtcg actcactcat cctccgcaag tgacctatat caccatatca cattactcca 60  
 tacatatttc atcatatc 77

<210> 42637  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-004-Q1-K1-B1

<400> 42637

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 caggtcacctc gtcgtcgccc catccagaac cgaggttctg gccgctgcgt tctccctctt 120  
 gtgcttcgac ccgctggtgg cgattagtgc tcgctgcaac cgccttgtcc accccctcta 180  
 attccccctc cgcaagccat tgctctgtag atttcttcgc gctgccactg tcgcctccgg 240  
 aatttccacc cgccattgtt gccgtgagag ggacctcgcc gggatcggng tgccgctcga 300  
 attgagttagg tcgaggagct cctctacgcc tcgacgagcg tgtccgcgac accaacta 360  
 gggatggagc ccctgtcgac 380

<210> 42638  
 <211> 505  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B12

<400> 42638

tgggggttcta caatctcgct ttgctatagt ttgtgggtcg gctcgtttgt ggggtgaagg 60  
gacgctccat gatattatga tggcttgcac catactgcat aatatgattg ttgaagacaa 120  
acgggatgag tacggaggag aacaagttta caacttcgac gatatgggac aatatctttg 180  
caactactac gacatgggac aaagggatgat agtgtcacac aattcttcac ctgaactcga 240  
tgcatcatt aaaaaaatac aaaaatatca agaacaagga aaccactat cagcttaagg 300  
cagacctgat cgagcacttg tggcaaaacc attctgagtt atataaaatt gattaatgtg 360  
ctatttatct atttttatct actttatgta ataagaacaa agttgtgcag taaacatggt 420  
tactgtttat ttccacttca attgcctgca atcatgtgtg gagttacgtg ttcacaaaag 480  
gtgaggataa tctataaatc aaata 505

<210> 42639

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B2

<400> 42639

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tgggagcttc catggcagtg tccgcaacaa tcagacgggg gacaatgcga gctttccacc 120  
cagctccagc aacaatcaat ctggggatgg tctcagtttt catgaaaggt tctatggatc 180  
acgtggaagg gaccagagca gaacaagcaa tgatggattc cgtgccagga gcagaagtcc 240  
tcctggcaag cccgtggaag tttccaactg gtgattgcat ccactagggt caatccaatt 300  
tttgcatggt tgacgaaacc aagtagaaga tggcacccta acaagttata ttatttcctt 360  
ttcttatcct gcttagatcc caagatgtga tgggtctgaac cctaacggct tctgctatct 420  
tgattgacgt ctgggagac 439

<210> 42640

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B3

<400> 42640

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aaggttccgg aaacatctga aaagggagcc cattgcactc atcaacaaac ttcgccaagc 120  
gcaaaatgat cctcctcctg gtcaaaaacc tgagccagtc aagacacatc ttcctaakat 180  
gatcattgtc cccgaaaaga atggaagcat ttgtggggtc tacaacagcc ataccatca 240  
ccacgttttag atcaaacctg acatgatagc tcactacc 278

<210> 42641

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B4

<400> 42641

cacgcatcca tcaaagaaac aagatcacac atacaatacc tctctagctc gccaccaaca 60  
atggcctgcg atgtactcca tcatgctcgc cacaactgca cttgctacgt cttttgtgat 120  
tgtttcgtgc tccaccctc tcaccttcta cgtcttctat atgctccaaa cctttccacc 180  
ttttccttac cctcaacatt gtcacca 207

<210> 42642

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B5

<400> 42642

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aagtaaakat gtctgaccgg gcaaagatgt cgtggcaggc gtacgtggac gagcacctga 120  
tgtgcgagat cgagggccac cacctcgcgg cggcggccat cgtcggccac gacggtgccg 180  
cctgggcgca gagcacggcg tttcccagat tcaagaccga ggacatggcc aakatcatga 240  
aggacttcga cgagccaggg cacctcgcgc cgacaggcct gttcctcgga cctaccaagt 300  
acatggtcat ccaaggcgag cctggtgccg tcatccgtgg caagaaggga tcaggaggca 360



tcaccgtgaa gaagacaggg caggcactcg tcgttggcat ttacgacgag ccgatgacgc 420  
ctgggcagtg caacatggtg gtggaaaag 448

<210> 42643  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B6

<400> 42643

ctaggagtgg caaggggaag gaggttttgg gggatggagg aagtaaggga aagggggggg 60  
ggaggggtgaa gaaggctgta ggcatgaagg aagaaagggg tgaccataag gttgcagggt 120  
ttatatattat gtgcaatgca aatactaaga aggagtgcta ccagaatcgc ttgtttggga 180  
tgctgatcg gaagattgga atggtcaata agataatgcc agggatgaag ctgtttctgt 240  
atgattttga cctgaatctt ttgtatggag tgtacaaagc agcatcacat ggtgggctaa 300  
accttttaca atgagcattt aatgtgaagt tccttgcaca tggt 344

<210> 42644  
<211> 163  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B7

<400> 42644

tctcgaccat ccctgcaaat taccgctatg gctcccaaga tcctagtcac ccttgtgggc 60  
ctggtcttat tctcaccggc tgetctggcc gccttccatg tgatagatat gctggccaat 120  
aagtccactt acattcaact tcctgaagct tctgcataac acc 163

<210> 42645  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B8

<400> 42645

cgacaatttc ctaagggtcg ctggctgtta ggagtccagt tacatggacg acaaccgcct 60

cagctcaaga tagtcccaac ggaagatcct gcaatTTTTTc cacattttTgc agggaaagaa 120  
gaggggtatg tccgcgtgtg aggtcttagc tagagactca aaccgggttc gacaccatt 180  
ctttatgtat agctgtacgt ggttgggctt tgagcccttt gctgctgctg ctgttgTTTT 240  
caccaatgca acgtgtagag agggactgtg ggggagcagt gccttctacc agactgtaca 300  
tgtaacatgt tgcagaaata tatgaagaaa aaatgacgtt tgaaggat 348

<210> 42646  
<211> 493  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B9

<400> 42646

aacaacattg cccggatcga gaagatggtg tggacgctgg caggctacgg ggagcggggc 60  
ggggaggttg gtgggttcgt gttccaccgg ttccccacga tcgagcggct cgcgctcgtg 120  
tcggagcagg aacttcgtca ggccggggtt gggtacaggg caaagtacat tgttggcact 180  
gctaaagaat tgcaggccaa acctagtga ggtcaaaaat ggcttgcttc actgcgtgag 240  
aaggagcttt cagatgtgat tgaagctctt tgcactctcc cagggtgttg tccaaaggtc 300  
gctgcctgca ttgctctgtt ctcccttgat caaaatcatg ctattcctgt cgacacacat 360  
gtttggaagg ttgctacaca gtatctatta ccagagctag ctggcaagag cttgacccca 420  
aaacttagcg ttgttggtgc cgatgctttt gttactagat ttggaagcta tgctggttgg 480  
gcacaaaacg ttc 493

<210> 42647  
<211> 450  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-004-Q1-K1-A7

<400> 42647

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gccgagtacc cggagacgat gcagaagatc gtcattggga ggctgcccaa cttcaccttc 120  
gagcagtctg ccatggtcaa aggcacagcg gactacgtcg ccatcaacca ctacaccag 180

tactacgcc a gcaacttcgt caacgccaca gagaccaact accgcaacga ttggaatgca 240  
aagatttcgt atgagcgaga tgggtgtgcc attggcaaaa gggcgctactc ggactggctn 300  
tacgtcggtc catgggggct ctacaaggct ctgatttgga ccaaggagaa gttcaacagc 360  
cctgtgatgc tcatcggaga gaacggaatt gaccagcctt gaaatgagac cttgccgttc 420  
gctctgtacg acaagttcag gatagactac 450

<210> 42648  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H10

<400> 42648

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tcgattcgga gttgcgccgg cggttcccaa attcataggc gtgatggcgg cggctcccta 120  
atctggaggg cgagctgcgg cggggccctg aggcgggcga gcagtgggtg cgcgccatga 180  
ggcgcgactg tctccagcga cagttgccat gctaggcaca tgtgggtcta acggcgacga 240  
cggctcttgcg agacacgtgt tgcgagggt 269

<210> 42649  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H11

<400> 42649

acccgcgcac accgtccacc ggcacgtcca ccggtcccat ggcgtccac gccgtctcct 60  
ccgcggcggt ctctccccg ttgcgcgtc tctcagcag cctccccag cgcgcaggct 120  
gtggttgttt accaaagcag tccgtcatga tttactccac aaaatttgca agacctcagg 180  
ctggaccggt ggacttcgtt ggcaggcctc tggttcttgg acgctcggac aagagagcag 240  
ttttgatgca tgccactatt gaagaaatcg aagcggagaa atccctcatc gaagaccaag 300  
ctaaagaaaa gatggagaag gcaatcgaaa cagtccaagc taacttcaac actgtgagga 360  
caggacgtgc aaaccggcc atgcttgacc ggattgaggt tgagtacta 409

<210> 42650  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H12

<400> 42650

cccacgcgtc cggagcagca ttctgagtaa cacagttgag caccgacgatg ggatccctcg 60  
ctgataacat catggtcgtg ggccgctcc ttgcggcgct tgtcgtcggc gggtcgtgcg 120  
ggcccccgaa ggtgccgccc ggcccccaaca tcaccaccaa ctacaacggc aagtgggtca 180  
ccgccagggc cacctggtac ggtcagccca acggtgccgg cgctcctgac aacggcgggtg 240  
cgtgcgggat caagaacgtg aacctgccac cctacagcgg catgacggcg tgcggcaacg 300  
tccccatctt caaagacggc aagggtgtg gctcatgcta cgaagtgaga tgcaaggaaa 360  
aacctgagtg ctcgggcaat cctgtcacgg tgttcacac agacatgaac ta 412

<210> 42651  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H3

<400> 42651

caaaatttga gtttgagttt gaaagaagga agctggccag agatgatgtt cgagaattaa 60  
ttgagcagag agacattgga ataccatcct cagatgttgc aggagtttct tgggtggtggt 120  
gtcaaggcga actttgtgta cccgagtggg gtggatcggt tcaagaggca attcgttcat 180  
ctcgaagaaa ttgctgctaa gggtgagaag actagccac aattgcgaca acatacttcc 240  
ttaccaagag aaagagtaaa tgacagcggc gacgaccttg agaaaccaag tgcagattac 300  
tgcataagat tgcattgatg tgatcaactg tcaagctctc gtaactttct gaagagcgaa 360  
ag 362

<210> 42652  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H4

<400> 42652

ggcaaaatgc actgttgatg gcaatctcat cacagcagcg acttataatt ctcatcccga 60  
atggatgagc ctatttgtca aagcactcgg aggttcagtg gcaggctcag ataagagaat 120  
actgttccta tgtggggact acatggagga ttatgaggte atgggtccat tccaggctct 180  
ccaagctctt ggctgccatg tcgatgccgt ttgccccgac aaggagagctg gggagacgtg 240  
cccgcagacc attcatgatt tcgaagggtga ccagacctac agcgagaagc ctggccacga 300  
tttactctg acagcgctgt ttggaagtgt ggatgcttcg agctacgacg cgcttgtggt 360  
tcctggcgga cgggcttcag agta 384

<210> 42653

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H5

<400> 42653

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cgagtacgga gaaatttcta ccgtaaagat tccagttggg aaacagtgcg gcttcgtgca 120  
gtttgctcag aggaagaacg cggaagacgc gttgcaaggg ttgaacggca gcactattgg 180  
caaacaggcc gtgcgtctct catggggctg caaccagca aactagccgt ttaagggcga 240  
caatggcaac atgcaatgga 260

<210> 42654

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H6

<400> 42654

tgggaacaca acatgtgcc aaggaaatgac aaagctctct ggcatctctg aaatcatccc 60  
cgagatggag atctgcatg ttgactttga accctgtggc tactccatga atgcgatcca 120  
tggctctgca ttctccacaa tccatgtgac gcccaggagc gggttcagct atgccagtta 180

tgagggttatg ggcttggatg ccactgctct gtcttatggt gaccttgtca agagggtcct 240  
 tcggtgcttt gggccctcgg agttttccgt tgccgtgacc atcttcggcg ggcgtggcca 300  
 tgccgggaca tggggaaagg cacttgggtgc agagggtctat gactgcaaca acatgggtgga 360  
 g 361

<210> 42655  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-003-Q1-K1-H9

<400> 42655

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 gcgggttcct tggaccacta tatccaggag cgacgaagtg atccaccgc cagccatgga 120  
 gatgaagaag gtctctgctg cgcgccctgt cgccgcgcgc tcggccaccg ccgtgctggc 180  
 ctcggtcgcc tccgaggcgc cctccgaggc gccgcgcggc gcggccgggtg gtgcggctgg 240  
 ccctagcgca agcggcgccg tcgtcgtcgt cgtgcccgc gtcggggcg cgtcgcactn 300  
 ctccctcggc tactacctnc actgagcgac gacgcgcggc gcggcaacgt tgggatgcat 360  
 cgtgtttggt tcattcgatt aattaattgg tttttttatt tacgtgggtt gcgattgggt 420  
 aattggttgg ttggt 435

<210> 42656  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A1

<400> 42656

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 aacgccggga tggtggcagg cggcatcaag gacgtgccgg cgaacgagaa cgacctccag 180  
 ctccaggagc tcgcgcgctt cgccgtcaat gagcacaacc aaaaggccaa tgctcttctg 240

gggttcgaga agcttgtgaa ggccaagaca caagttgttg ctggcacgat gtactatctc 300  
 actattgaag tgaaggatgg cgtagtcaag aagctttatg aagctaaggt ctgggagaag 360  
 ccatgggaga acttcaagca gctgcaggaa ttcaagcctg ttgaagaggg tgctagcgcc 420  
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 <213> Zea mays  
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 acagactgtg gaccagcaac aacgcctttc acagtgttcc gataagctga tgacggatgt 180  
 caataggaac ttgtaaccta agaatcgtga cagattcact caaaacctga cagcatttag 240  
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 tgcacgatgt aaatactcca gttaccttct tttttggaac cacctttctg tgggttgaga 360  
 aaagaagagc ttgtccttag gtttgccctg gattggctga agatgggtctt ggtgatgcat 420  
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<210> 42658  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-004-Q1-K1-A11  
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 atccatctgg ccgaatcgtg gtggcagacc tcaaggccaa ggaccgagtc atgaagctca 180  
 tgaatcatga aaacactgaa gtgcagaaaa atgcgctgct ctgtgtgcag aggctcttcc 240

ttggcgcaaa gtatgccagt tttctgcggg cctgagagaa accgagcctt ttttgtattt 300  
 agatccagag aactcctggc catttttcaa aatggctgtt aagaaaacct tgaaaattct 360  
 tgtccattat atcctattgt tattttattt ctgagaccga tgtataataa ataattagag 420  
 ccgtaccatg ctgatgt 438

<210> 42659  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A2

<400> 42659

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 gaattgagga ggcgactgaa gctaaccgcc ttgcgcgcgc atgagtcgcc tcctctcgcg 180  
 gcagcacctt gccgtcgtcc gtgatctgc accctttgcg tgcgtgtcca ggtgatcccg 240  
 cctctcgcgc cctttccccc cgatcaatcg cgcgtgcaaa ctgaggtgtc gttgcgtggt 300  
 ctgatgcgaa ttgggggggat cgcactaatg gtggaaatgg aaccatgtga ctgttcgcca 360  
 ggctacatgc gtgtgttcac acttttcaaa ctgacaggat atgttttt 408

<210> 42660  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A3

<400> 42660

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 tatccccact tcaattcata cccctggatc accctattct tgtgatgtcc cgatgggtga 180  
 agaggccata gacgccatct gcaagagcca cggaacacca ccagatgaga agattgccat 240  
 caccaaagct attataaatg tatcgaatgg atccaagccc ccactctttg ctggcatcat 300  
 agcacttgtg atgagcatcg caacgatggc ccgtctgacc cgcagcatga tgccctgggaa 360



ggttctcggg gctgccatag gtggagctac cctctc

396

<210> 42661

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A4

<400> 42661

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acgtggctgg cacaagacg acatgcagaa aatggagcat gcattgaatg ccatgaggaa 120

caatagatat cgtacattac ttttgttctt gatgtccaaa cctctactgt tcctctttct 180

ccaacaacaa gttctttctt ttctggcgag caaaagtgt gataacgtgt tagagcgcag 240

tgaaaacgag actcgagaga atagagaaaa tgacagttgt cgatctttat tgcagagatt 300

ctgggttata taaa 314

<210> 42662

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A5

<400> 42662

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aagtggacaa agggcttttc catcaatggc acggttggtg aagatgttgt ttctgagttg 120

agcagggcca tggagaggca gggactagat atgaaagtta cggcattggt caatgatata 180

gttggcacat tggctggtgg gagatatatg gataacgatg tagttgcagc cgtaaatattg 240

ggcactggta caaatgcagc atatgtggag catgcaaatg caattcctaa atggactggg 300

ttactgccta aatctggaag catggttaatt aatacgggaat ggggaagctt taaatccggc 360

aagcttcttc tctcagaata cgacaaagcc atggactttg aaagttgaac cctggagagc 420

agatatacga aaaaatgatt tctggcatgt atctgggaga gaatgttcga agaattt 477

<210> 42663

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A6

<400> 42663

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tcatagtcaa atctctc 77

<210> 42664

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H1

<400> 42664

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gcagcaggaa gctaaataag gttatatata ttgcattaaa aaacatgcac cgcttaccat 120

atatactact gagacttttg aattctagta taagtaatcc ttttggttgg ggtaggagg 180

gcaatctaata catgtatgcc gaattccaaa tagtggaaaa caagctaaat gttaaataata 240

catgcctatt ttggagggca tttttttt 268

<210> 42665

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F12

<400> 42665

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acgtctcat cagcgaagca ggaagacatg gttgatgtga acttgaggtc tggcaatgca 120

aactcgtccc agtctcaggc tcaggctggg ggatgcagtt gttagttgca gtctctgaca 180

cttgctgctc atgatctctg agaccctgag catcagaacg cgttaccact gatgcttctc 240

tcgggaagga gagttgatcg gcattgaaca cgcacacgct atagttgtta cccggtgaat 300

ggaccatttg cattggaacg a 321

<210> 42666

<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F3

<400> 42666

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gggtttggtc ggtcagcaaa atatcatgtt agacttggaa aataaagcct tgaagcaacg 120  
gcttgagagt ctatctcagg agcatctcat taaacgttat cagcaggaga tgtttgagag 180  
ggaaattggc cgccttagaa cattgttcca gcagcagcaa cagcaacaac atgtgccgca 240  
gcagcagget cctaccata gccgcagtaa cagtagagac ctggattcgc aatttgcaaa 300  
cctgtctctg aaacacagtg atcccagttc atggcgcgac gctttctctg gccttcgcat 360  
ttaagaaccc tttggttcag cttttggatc cctgagcttt gcagaacctg gtgccccctt 420  
atgccac 427

<210> 42667  
<211> 424  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-003-Q1-K1-F4

<400> 42667

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tcttcatcca gccttctgct ctgcgcggtc gaaatggang cgacgagcaa ggcgatggct 120  
tcaggcctcc tcgttctgct gcttctcatc aacacaggct ttgtcctgcc cgtccattcc 180  
gaggactgct gggccgacac ccgcgtcatc tgcaccaaga cgcacaactg ccgggacgac 240  
acttgcgagg agcgcggcat gccggacggc cgctgccact gggagttccc caacctggtg 300  
cccttctgcc agtgccctgcg ccccaactgc cactagtccg ggcgcctcgg attggtcac 360  
ttcgccggcg attatggatg gtgcccact gcgactgcc aatctggttc atttcgtgtg 420  
gtta 424

<210> 42668  
<211> 365

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-003-Q1-K1-F5  
  
 <400> 42668  
  
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 acgagggcac ggccctgct accatcgta tggcgctgtc tgggagagtc tcggagcttg 120  
 tcaatataca gctggctctc cgggacaagg tgccgattgt gaggaggttc agtggaggtg 180  
 gcaccgtcat tggatgatcag ggaacgggtgt ttgtgacttt catttgcaac aagaatgttg 240  
 ttgctgggct gcagcccttt ccacgggaca tcatgtcatg gagtggtcag ctatatggga 300  
 aaagttttga cagatttggg gaatttcac tacgtgagaa tggcatgaaa ccacacagaa 360  
 ttctt 365

<210> 42669  
 <211> 254  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-003-Q1-K1-F6  
  
 <400> 42669  
  
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 tggaagccca tgaagctctc ttggggcgcc atctggagga tggacactgc caaggcgctc 180  
 aagggcccct tctctatccg cctcaccagc gagtccggca agaaggatcat cgctaaagac 240  
 atcatcccgg cgaa 254

<210> 42670  
 <211> 232  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-003-Q1-K1-F7  
  
 <400> 42670  
  
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 caggtggatt gatcaaatc agaagccgct tatggctatt ctctgaagt tttcagatgt 120

gtggatgtcc acgtagctct cttggactgg gatctgaatg atagacactt ccttggtggt 180  
 ggatgcgcca ttgtctatca gggtagctag ttagtgcttc tcgttggtta tg 232

<210> 42671  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F9

<400> 42671

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 ctaggacatc gcaccagacg aactaagcat gtcactcgcc acagctgctg gtctcttcta 120  
 catcctcgat gtcgatgcgc taagcgcggc cgaggcaccg gcagagatac cgaaggcacg 180  
 cactcctgac aaggcaccgg acgagtcact gaaggcaggc aatcctgcag ctgctggcaa 240  
 ggcacccgag tctgctgcca ctagaactgc ccccgctaag gcacc 285

<210> 42672  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G1

<400> 42672

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 gccactgacc caagagccaa gatcatggcg tcattcttct gcgtccgcct ccatcacctg 120  
 cgtccacct ttccgccgtc gtccgcccct ggcgccccaa ccaacctcca gttccgcgcg 180  
 gcgagctgcc ggtggcgggc gcgggttctc gttcccggcg cggcatctcc tcccctaagc 240  
 ctctgcgcca cgggttcccc gcagccgcct cttggcagtg acagcaacgc tccgttgtcc 300  
 cgcg 304

<210> 42673  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G10

<400> 42673

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ggggtcgccg ccgcctggac ctctgcagg tgggtctctt cgccgctgtg ctctcgctcg 120

tcgtcgccga cgccggcgtg acgagccagt accggcgga gctggaggcg acggtggaga 180

tgccactgga cgccgacgtc ttccgcgtcc cgccggggta caatgccccg cagcagggtc 240

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agctgggcag cagcacgtc atg 323

<210> 42674

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-003-Q1-K1-G11

<400> 42674

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catgaccgag gcgtccggca ccatgtccgc aggcacgccc ctgccaccct ccaacgccgg 120

agcgccctcc tacggcgagg cggcgccttc cgggggctcc gccgatgccc ccgcccggcg 180

ctccgagggc cctgcgagcg ccagcggccc gtctggtgac gacgcgcgg cgctccggtg 240

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gcaccaacgc catcgtcgtc gtctg 325

<210> 42675

<211> 280

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 42675

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tcaccaccaa ctacaacggc aagtgggtca ccgctagggc cacctggtac ggtcagccca 180

acggtgccgg cgctcctgac aacggcggtg cgtgcgggat caagaacgtg aacctgccac 240  
cctacagcgg catgacggcg tgcggcaacg tncncatctt 280

<210> 42676  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G2

<400> 42676

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ctgacacgag tggagctgcc aatgatgtct atgaatttgt gaaagccatc gggaagtcca 180  
aggagacgaa gcgcaccgag ggcattctga cgtcggacat catcatgagg atcttgaagg 240  
actacaacca gtacatcatg cggaacctca cccgcgggta cagccgcaaa gatctcggcg 300  
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aggtgaagga gcaccaggag aagatccaca gcgcg 395

<210> 42677  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G3

<400> 42677

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agaagaggac gaggaaggta acaagcgagt cgtggtgctt ggcccccagg tccccctcaa 240  
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tgggcaggtc gacacagagc agctgggaga aactgcggaa c 341

<210> 42678  
<211> 407

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-003-Q1-K1-G4  
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 ggggtttggg ggttttctcg acctgcatga gaagctctta atataatgct cagggtatc 180  
 ttaccccccg catgtccagt tttttatatg tttcatgcgg tctaaattta gtgttatggt 240  
 agttctctta ttttcaaggt ggtactcccc ctgttccaaa ataagagtca ttctcgcttc 300  
 ttgagaagta aagttaatat aaaacataat tagtaacact aggtaaatat tcgaatgtat 360  
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<210> 42679  
 <211> 344  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-003-Q1-K1-G5  
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 caccgcgcc gccgtgcgga ccatccccga cgaagccgc ggccccgaa acaacatcca 180  
 cgaggcgtgc agcaagacgc tgttcccaa ggtgtgcctg cacgcgtca aggacaacc 240  
 cgagtgccag gcgggggcgc tcacgcgcgc cgggtggcc gagctgctcg tgtacgtgc 300  
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<210> 42680  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-003-Q1-K1-G6  
 <400> 42680  
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 gacagattga tgaggctgtt ggtttcatgt aagaagttgt aagtttgcac cataactgaat 240  
 ttggaccagc gtaccggatt tgtcaaggct acgctttgat tgaatacgag aagtttgaag 300  
 aagttcaggc tgcaataaaa gatctggatg gagctgacct ttataaaca ataatgagtg 360  
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<210> 42681  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F11

<400> 42681  
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 gatgagcttg ttctgctgct gctttattgt gcatatacag tgggtctcta cctgcacctc 180  
 gctgtgtcgg ttgtgcatga aatcaaagat gcccttggaa tctattgctt caggataact 240  
 agaaaggagg cttgaacttt gtagtgaaga tatattatta ttacttcaca agtgc 295

<210> 42682  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G7

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 agcttaagca aggcaaggca agagaatccg tacgtttagg tgcaagtcgt aggtaagatg 180  
 gacgcggacc aacagggcgt ggt 203

<210> 42683  
 <211> 403

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-003-Q1-K1-G9  
  
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<210> 42684  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-003-Q1-K1-D12  
  
 <400> 42684  
  
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 gcagcagccg caggaggagc aggaggagca gcagccaccg gagctggagg aggaggagca 240  
 gcagcagccg catcagccac agcttccatg gttcctgcag aggcagcgcc cgcccgttct 300  
 tcttccatgg ctccggcccc atccacggtc gcgtcgaccg ttccggaaac atccggtggc 360  
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 tagacctnca aaatatgcaa t 441

<210> 42685  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D3

<400> 42685

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agagttatac aaatagaaat gctgcacctg atgttggtat tagagagcct catttgata 180  
ccttctctct gaggaatggg aagctggagg ttactgaaat tttcaatttt tcacaagatg 240  
atctgttgac cgaagacatg atgatacttg atacacactg tgagggtttt gtttggatgg 300  
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gaaatgccgt ggcctt 376

<210> 42686

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D4

<400> 42686

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gggggcgggc ggcaacaagt gcaggtgagg acatcatttc gaaacttgaa aggtgcatgc 120  
atcatcttaa catgaagctc cactcatttt agattaattg ttggtgacct gatgctccaa 180  
cttgaatatg ttgaaccaa caatgtcaga atacatcaat ccaaacattc ccagtacatc 240  
aaggaattgc tggtgccacc tgcacttat 269

<210> 42687

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D6

<400> 42687

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acggatggca gtcgggaaga acaagaggat ctccaaggga aagaagggtg gtaagaaaaa 120  
gaccgtcgat cccttctcta agaaggactg gtatgacatc aaggcccat cggtcttcag 180

tgtgcgcaac attgggaaga ctctcgtgtc caggacacag ggtaccagga ttgcctctga 240  
 tgggtctgaag cacagagtct ttgaggtttg tctagctgat cttcaggggtg acgaggatca 300  
 ggcttacagg aaaatcaggc tccgtgctta agatgtgcaa ggcaggaatg tgctcacaaa 360  
 cttctgggg 369

<210> 42688  
 <211> 148  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-003-Q1-K1-D7  
 <400> 42688

ggcatggtgc agtaaaatga aatagagaga aattgcagca attctttgtt atcttagcgg 60  
 cacgttttct tcttccgaga gcaactatgta caaggtgaca ttataaaaga ttaagatagt 120  
 gaaggcctta ttttcgcgag gctaattgt 148

<210> 42689  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-003-Q1-K1-E1  
 <400> 42689

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 ggcgcggcg tggacgatgg cgagccgcct cagcagtgcg cgaccccggt gagcgtggag 120  
 gaggcgtgcc gcggcgctc cgagacgcac gccggcgtgg cctacgacca ctgcatggcg 180  
 tcgctgggcg ccgacccgcg cagcaaggag gccggcaaca agaacatgca cgggctggcg 240  
 gtgctggcca ccaggatggc catcgaccac gccgtcagca ccgagtccaa gatcgccgac 300  
 ctccttcgcg acgcgctgga caaccttaag gcgaagatct acggcaaggt catggagc 358

<210> 42690  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-003-Q1-K1-E10

<400> 42690

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tcttataata agatatatct tctacaaaga tcataagaac aaatgatatt taactattta 120  
tcaataatct agctatcacc atctgagagt tttgtaaata tatgtactag tctatttgca 180  
taaattataa gatatggata tgctagataa catatactag gctagcttat ctatcaacgc 240  
actcatcata taattgacat atgctagtag atttcacatt tt 282

<210> 42691

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E12

<400> 42691

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ccgggctcgc cggcaaccac cagatgcgcg ccgtcgccgc cgtcgcgctg ccggagacga 120  
aagactggag ggaggatggg atcgtgagcc cagtgaataa ccagggccac tgtggatcat 180  
gctggacctt cagcactact ggtgcgcttg aggctgcata taccaggca actggcaagg 240  
ccatctctct ttctgagcaa cagcttgctg actgcggctt tgcatcctac aatttcggat 300  
gtaagggggg ccttccatcc caggcctttg aatacatcaa atacaatggg ggtcttgaca 360  
ctgaggagtc ctaccctta 379

<210> 42692

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E2

<400> 42692

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atggggacag aggaggaggg ttctgactac cttgttgatc actcaattgt catgtacctg 120  
atggaccag agatgaagtt tgtcaagttt tatggcaaga actacgacac agattccctt 180  
gctgacggta tcgttaaaga aattaaagag cacaagtaaa cagtagttgg aatgccactt 240

tgcaacgtca gccttgtttc tgaatttctc ccgagagttt tgttaaataca agcaaaaaacc 300  
 aaatggcaca cgagatcatg tggcaatagc tgatgacatt tgaatctcgc ggcggctttt 360  
 atttcagcag attcgggtgc acatgttgcg ggtttgtgca cgtttttgtc ac 412

<210> 42693  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E3

<400> 42693

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 ccggatggag ctgttgcatc ccagaatcca aaaatacaga cagccatcat ggactgctcg 120  
 cagaaccctc ttaacattgt aaaataccaa aatgacaagg aggtcatgga tgttttcatg 180  
 aagatatcac aaatcttccc ccaaattaac ggctagctga tcttcgctcg gggatagcac 240  
 ttctgatttt tgtcggcccg tcatctccag tctggagggc tgctgcggtg gcatctatca 300  
 agaaaagggt cgtgacgctc cgatataccc ctcccgtgtc aaggtttttg aagttcttat 360  
 gtacatcatg tgatgt 376

<210> 42694  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E4

<400> 42694

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 cggcaagcga gctagttttt gtagatctgc tatggtgtgc tttattccgt tagtcgatat 120  
 atgttgcatc gtttctagtt tcgaagtcca tttatttact tctctatgat ttctacacac 180  
 ggcctaataa tcttgctaag gccctgattg aatggaaaat attttttggg agttttt 237

<210> 42695  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E5

<400> 42695

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ctggcgtaga gagtttgtca accttcctgt cttgcaacca tgatattatc tttatttagct 120  
gtgggcaagt tggacaaagt aatgggtgaaa ataactggtc tgggaaccat gtggaagatt 180  
cttctcttca aatgcttgaa gggaaatgct tctgggggtta aataccaact aatttacttg 240  
cttcattctt tgagagttgt gtcatttaaa gttgggacat attgtggagt tggcatctaa 300  
agttacaatg ag 312

<210> 42696

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E6

<400> 42696

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ctttaataat tagtcagact accttgcttg caaccatgat attatatata ttacctatga 120  
tcaaattata caaattaact ttaaataata ctactatcat aaccattttc aatattttt 179

<210> 42697

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D11

<400> 42697

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tatgggagta taccggtgag ctattggaag atgaagaagc tgaaaagaga gagaatgatg 120  
agtatctatt tgatattggt cataactacc atgataaaga actttgggag gggctgaagt 180  
cagtggttgg cctaggatct gctacttcgt cttctgagac catggaaggc ttcacaatag 240  
atgcatctga gtgtggcaat gtgggaagat ttatcaacca tagttgttca ccaaacctct 300  
atgcccaaaa tgttctctgg gaccatgatg atatgaggat gccacatgtt atgttttttg 360

ctgttgagaa tatcccgcca ctacaggagc tgacctacca ctataactat aagatagggg 420  
aggtctacat aaat 434

<210> 42698  
<211> 401  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-003-Q1-K1-F1  
  
<400> 42698

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ccgtgggtcac ctggcgtggc tcttccggcc tgtggattat gtgggcggaa ggatagggat 120  
ggagcctgga ggaggggaga gacgcgtccg gtgacgtccc ctgtccaccg ttttgagtag 180  
gagcgtgtgc aacgtggcga ggattcaagg aggacagaca gtccatggca ggttgatcac 240  
aatatcaact gtttgtttta ggtaggagcc ctgacaactt gacatccgac accgtgacat 300  
tgagggtgtgc tccggaggct tctctcgat agtttaaatt ttggaacttg attgctggtc 360  
gaggtgaaat atttatactc catggcctga ttgcagtgtc t 401

<210> 42699  
<211> 400  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-003-Q1-K1-F10  
  
<400> 42699

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tcgatcaaga acgccatctg ctaggttagg gtgtgttggc cctgccatgg gggacaggcc 120  
ggcgccgacg gagaaggctc cggtgccgga gaagatggcc ttgttctctc acgccgtcgt 180  
cacgtcaccg ggacaccagc agcagcacgg cgcctcgtcg cacgaggcgc ccgccgcgaa 240  
catcacgccg tggacaacag ccaggaataa gcagcagcac ctgccggtga gccccggggc 300  
gtgcctctgc tcgccgaccg ttcacgaggg ctcgttccgg tgcaggctcc accgcggcag 360  
cggcagcggc tccggccttc acgagatgaa gatgagcaag 400

<210> 42700



<211> 456  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B6

<400> 42700

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 gaggattgtc atcaagacct gtggcactac caagctcctg ctcaccattc caagaatcct 120  
 tgagcttgct gaagagctgt ctatgccact tgctgctgtg aagtactccc gtgggacggt 180  
 catctttcct ggcgcacagc cagcccccca caggagcttc tctgaggaag ttgctgcact 240  
 taaccgctac tttggcggcc tgaaatctgg tggtaatgct tatgtgattg gagatccagc 300  
 aagacctgga cagaagtggc acgtcttcta cgccactgag taccagagc aaccaatggt 360  
 taaccttgaa atgtgcatga ctggtctgga caagaagaaa gcttctgtct ttttcaagac 420  
 taatgtgat gggaacacaa catgtgccaa ggaaat 456

<210> 42701  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C1

<400> 42701

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 cgagtcggtc ctcccagct tctgtacgc ctctcggcg cgctctttcg ctgccacagg 120  
 agccgcgcg cgctccttg tctcctcccc agcgctgcc acggctggag caggaggcgg 180  
 cgtgccgttc tccatccagg cgccaagga gaagatcgag atgtactcgc cggccttcta 240  
 tgccgcctgc actgccggag gaatcgccag ctgcgggctc acccatatgg ccgtcacgcc 300  
 tctcgacctc gtcaagtgca atatgcagat tgaccagcg aaatacaaga gtatctcatc 360  
 tggatttggt atcctgttaa aggagcaagg ggccaggggt ttcttcaggg gatgggtgcc 420  
 tactttgctt ggta 434

<210> 42702  
 <211> 384  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C2

<400> 42702

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gagagggagg gggagaaccc catgatgaca cccctgccct acatcatcat cttcggcattg 180  
tccaccccct tcgtcatcct cgccattggc gaaggctatg gctggatcaa ggtccctgtg 240  
cgatgaccgt aacgcgatca gccagcctgg atcatagatg ctgactcgtc agcctgcate 300  
ttattcagcg tgtgtcctgc gactttggac cttcatatat agagacaaga gtttttgcgt 360  
gtgaacataa ttgcatgac gcgt 384

<210> 42703

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C3

<400> 42703

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ggggccggct cattcggtga aagggtgcga gttagggttg ggagatctct tgcctcacga 120  
cacgagcagc agaatttgct gagggccgct ggttgctgctg agaggtccgg gccttcgtgg 180  
gatcttgaaa attgaatggt ctaatggagt ccaaggggtg caagaagaag tctagcagta 240  
gtcgttcctc cctgatgtac gaagctcccc ttggctacag catcgaggat atccgccctg 300  
caggcgccat caagaagttc tccgctgctt actcgaactg cgcgaggaag ccatcctggt 360  
atctctgttg tcatccccat cctagtagcg tagaaaccaa ctgcattttc attttgatct 420  
ccctaatacc tccggctagc tgctt 445

<210> 42704

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C4

<400> 42704

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tcgtcgggtg cgcgctgtgt ccccgcgccg atgccaccgc gttcgaggtc ggcgggcgacg 120  
acgggtgggt cgtgccgccc gccagcgacg gcggcaggta caaccagtgg gcatccaaga 180  
accgcttctt cgtcggcgac gtctccact tcaagtacag cgaggactcg gtgctgggtg 240  
tgacggaggg cgactacgac agctgccgcg cgtcgcaccc cgtcttcttc tccaacaacg 300  
gagacacgga tgtgacgctg gaccgcgccc gccccgtcta c 341

<210> 42705

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C5

<400> 42705

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ccgtgtagac cagctcgtgc ttgccgggcg cggcgtcgat gtagaccgtg cagttctcgt 120  
cgatctcttc ctggatcagc atcttcgaca gctgcgtcac caccctcttc tcgateccacc 180  
tactgattgg ccgcgcgccg tacacctgtt gctgaagcca cacaagatag aaagttcgca 240  
tcacaggtg tcaccgacca attcagatgg atctaatacat ggatggtcac ataccggatc 300  
gtatgagaga gacatgatga tg 322

<210> 42706

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C6

<400> 42706

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caggaactgg tggtgaaaag atatgcatag gtgaccaaga actacaagtt gtttttgcac 120  
ctggtcatac agatggatcat atggggcttc tccatgtaaa taccaatata ttggttggtg 180  
gagatcattg tgtagggcat ggaagtgcaa ccttggacag tagaaatggt ggcaacatga 240

aggattactt tgaaactaca tacaaattct tggagttgtc accacatgta ttaattccaa 300  
 tgcattggaag gattaatcta tggcccaagt atatgctttg tggatacctc atgaatcgaa 360  
 aggctagaga a 371

<210> 42707  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C7

<400> 42707

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 aagaggccaa cgaagcacca ccagacgacg gccgacgtgg tggcagcggc gctgtgcgcg 180  
 cgtggggcgg ccacgcacaa gggcagggcg tcctcggggg cggcgggcga ggtggccctc 240  
 tggagccggc ggatcctgat gggggagcgc tgccagccgc tggacttcgc gggcgccatc 300  
 cactacg 307

<210> 42708  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B5

<400> 42708

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 gatgaagaag gtctcttcgc ccgccctcgt cgccgcgcgc tcggccaccg ccgtgctggc 180  
 ctccgtcgcg tcgagggcg cctccgaggg gcccgccggc gcggccgggt gtgcggctgg 240  
 ccctagcgca agcggcgccg ccgccgtcgc cgtgcccgcg gtcggggcgc tcgtcgcctc 300  
 ctactcgcg tactacctgc actgagcgac gacgcgcggc gcggcaacgg tgggatgcat 360  
 cgggtttggt tcacccgatt aactaattgt tatttttaat tacgtggttt gcgattggta 420  
 aatggttggt tggtcggt 438

<210> 42709  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-H12

<400> 42709

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 tgcaggcttc cgatgcggtc tagctaaatt gtaaccagaa tagcaggact agcacgacta 180  
 cgccgaatga caatgtgatc cagcaccatt ctagtgacac atgatcat 228

<210> 42710  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A1

<400> 42710

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 ttggaaagca gtagtagttt agtcaaatta gatatgcggtt ttaggattct agttgatatg 120  
 cgtccattat tttgttcaca tcgaatgcag cagtgtgtta gctatgtagt tgcataccta 180  
 tcataactaa gtctattaga agtatttcta ataatattta ggatctgtca tcaataaaat 240  
 gtatgcaaca atacgactat tgtatt 266

<210> 42711  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A2

<400> 42711

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 cccaacatca ccaccaacta caacggcaag tggtcaccg ctagggccac ctggtacggt 180

cagcccaacg gtgccggcgc tctgacaac ggcggtgcgt gcgggatcaa gaacgtgaac 240  
 ctgccaccct acagcggcat gacggcgtgc ggcaacgtcc ccattctcaa ggacggcaag 300  
 ggctgcggct catgctacga agtgagatgc aaggaaaaac ctgagtgtctc gggcaatcca 360  
 gtcaccgggt acataactta cctgaactac caacctattg gttcctaac 409

<210> 42712  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A3

<400> 42712

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 aagtggaaag aaacttccaa tggaagacat aagctttggc cagtgtcctc tgcaggggtgt 120  
 tgaacatttt gggctctttg gaatttttga tggacatggt ggggatggag ctgccaaaac 180  
 tgtcagcaag attctttcag aaaatctggg atacatgtta tctcattctg aaacaaaaga 240  
 accagtgcag tcatgttctg atgcttctga tgagcttaga aattcttcta ctttgacag 299

<210> 42713  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A4

<400> 42713

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 ccacagcggg tcttggaac acccttctat gatgagtgga agaataattt cccagaccag 120  
 gaaacagagg aagatcaacc catcataggc cactctatca tccatggtgt gcacaaggat 180  
 attcgtcggg ttgccggtac tgttccaaac gcgacggcaa caggagatat cgacatcatg 240  
 gccatgtatt cgggtcacgg tgttgggcta atcacggaga tcataccagc 290

<210> 42714  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A6

<400> 42714

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caaggcatcg gctggggctg ggggtggcgcc atctgggcgt tcagcgctgt cacctacttc 180  
ccgctggacg tgctcaagtt cgccatccgc tacgcgctct ccggcaaggc ctggaacaac 240  
atcaacaaca agac 254

<210> 42715

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B1

<400> 42715

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ttaccagagg cccttcatga aggggaagct ctacattcat ttcacgggtg agttccccga 120  
ctcgtggca ccagagcagt gcaaggctct cgagtcggta cttccgcca agccttcgtc 180  
caagctgaca gacatggaga tcgatgaatg cgaggagaca accatgctta atgtgaccac 240  
catcgaggaa aaaatcccca ggagccaggc tatggctggt aag 283

<210> 42716

<211> 231

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-003-Q1-K1-B12

<400> 42716

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gccagcctgc aacgccggag cgccctccta cggngcggcg gcgcggttcg gaggcgccgc 120  
ggacgcaccc gtcggcacct tcgaggccc tgccagcgcc agcgggcat cggtggtga 180  
cgccccggcg tatggcgcca gcgccagcg cagcggccc actgctgatg c 231

<210> 42717  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-003-Q1-K1-B3  
  
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 acttcgggtc aggagatggt ggcagctggg gctctggcag gggaaatggt ggccgcggtg 180  
 gttacaggaa ctggaacgat aacaatgagc gatccttcgg tgaaggtggt ggctggtccc 240  
 agtcccagtc ttccgattgg aatgccaca aaggaaatgg cgaaggaaat caagctttct 300  
 cgaaaagcaa gccagctgg gaagcacaaa acacctctgg tagagatggt caggcatgaa 360  
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 <213> Zea mays  
  
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 catcgtcatc gaccagtact tctgcccga gaaggtatgc cctggcaagc ggagcaactc 180  
 ctgcgatgct tccgtcaagg acgtcacgtt ccgcaacatc accggcacgt cgtccacgcc 240  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-002-Q1-K1-A10  
  
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<223> Clone ID: LIB3075-002-Q1-K1-B11

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<223> Clone ID: LIB3075-002-Q1-K1-B12

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 acctcaacat aaaaggtaac taccaccagt accttgctta gatcaaatct tattcatata 180  
 ccaaacattc ttcatacagc accatcaatc cctacaaaaa tgctcatgac atcgctcttt 240  
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<223> Clone ID: LIB3075-002-Q1-K1-D10

<400> 42722

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 taataactat aaaaactatc aataacaaat ccatacatatc tttcttatct tatectactt 180  
 taaccaatta aactactcta accgtacact catcacacaa ttatttactt tcacacaaat 240  
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<223> Clone ID: LIB3075-002-Q1-K1-D12

<400> 42723

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 gaagaccctg atgagtacag caacaaggat aagacagatg aagagaaaag cgagatggag 180  
 gagaagaagg gccagtagc caagttctgg aatgagtttg gcaagtcaat caagctgggt 240  
 atcatcgaag acgcgactaa cagaaaccgc cttgcgaagc ttcttagatt tgagagtacc 300  
 aagtcggatg gcaaacttgc cttccttgac gagtacatct cacggatgaa gtcagggcag 360  
 aaagacatct tctacatcac gggaaagcag caagagcagc tggagaagtc tccatttctc 420  
 gaga 424

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 <211> 174  
 <212> DNA  
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<223> Clone ID: LIB3075-002-Q1-K1-D9

<400> 42724

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 agaaggcata tcatgttaac ttgcttaatt accattccaa catggttgaa acct 174

<210> 42725  
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<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ggaaatgggt ctgggtcatga tctgcctgaa acgaaggctg caaaacagaa agttgcagat 180  
 atggctgcta aattagcctc agagcttatg ccgtctgatg ttgccaaggc attatggggg 240  
 acaaccaaga gttcttcaaa gataaataaa gaagttcagg agctttttaag gcttacctta 300  
 agcaaggccc gagtcaagct gaccgatgat naccttttta accggatcat tatggacact 360  
 aacagcatgg atccatttaa tgggtctctat gtgggagcat ttagtcata tggaccagaa 420  
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<210> 42726  
 <211> 185  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-002-Q1-K1-E9  
  
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 aggcttaaaa aaatcggcgg cggcacaaac taccgacccc cttaaagtgc acccagaccc 120  
 aacatcacca ccaactacaa ctgcaaattg ctcaccacta gagccacctt ttactgtcag 180  
 accaa 185

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 <211> 272  
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ctcctcccc tttaaaatat ccaacctttc ttccccaca attcaactta cttactcttt 180  
tttaatctcc cctaaaacca attcacttac cccatTTTTT caaccatccc tcttcaaaaa 240  
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<210> 42728  
<211> 217  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-G12

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tgctacttat cacttccctac acatattaca ctttttacca taacactttt cctccatcaa 180  
catccccctct ctatcttcat acctcactac cccttct 217

<210> 42729  
<211> 249  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H5

<400> 42729

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tactaccctt tggcagtcca cgtccactcc gtcggcatcg acttctgcct cgtctgagac 180  
tccgtcgtca tgttcgtcca ctgtcacgac accactcttc ccatcacgct tgacatcatg 240  
ctccagcac 249

<210> 42730  
<211> 249  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-D5

<400> 42730

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tcaaattacc tcaagaaagt gtcgctcttc tcccggactc gcattctactc cctggcttcc 180

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ttcaacccc 249

<210> 42731

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-D6

<400> 42731

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ttctttccat cttatcattt tataacttca aacatcacca ataacatatt cttccatact 180

ttcttatcat atcccacttc taccatttca ccttcttatt ccctacactt attacac 237

<210> 42732

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-D7

<400> 42732

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aatcaaaatt tatataaatt atgaatcttt tcgccacca atctctaata tgctaattctt 120

cttcagtcgt cactctcccg tctctaattct actgcctcta tccaatcatt tcacctcttg 180

cagctctccc cccttcatct aaatcctca 209

<210> 42733

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-E11

<400> 42733

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tttcaattaa aagtttgccg atccatatta cttcaataaa tttatccaac cactcaatta 120  
ctacccaaac cacatttcaa aatcttacia gcatattttc catttcttat aaccaaactt 180  
ccacttatat taa 193

<210> 42734

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-E12

<400> 42734

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acaagatcag gccactgtgg aggcattact tccagaacac ccagggtctc atctttgttg 180  
tggaacagcaa tgatagggac cgtgttggtg aagcaaggga tgagcttcac cgaatgctga 240  
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atgctatgaa tgccgctgag atcactgata agcttggact gcattcactt cgccagcgtc 360  
attggtacat tcaaagcact tgtgctacia cgggtgaggg attgtatgaa ggcttggact 420  
ggctg 425

<210> 42735

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-F10

<400> 42735

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atctatctaa ttactctggt tactacaaga atactaccac cgccaatcct cccatcgcat 180

cacttctctc taataaataa tccatagaac atactcagac ttatctactc aagaacaata 240  
tactcactcc 250

<210> 42736  
<211> 122  
<212> DNA  
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<223> Clone ID: LIB3075-001-Q1-K1-F12

<400> 42736

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<210> 42737  
<211> 303  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-G11

<400> 42737

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taaaatccta tttaaagcac aaacttcacc ctttattcac acatttacac tctataccat 180  
attcatctca tacacctatt caaccttctt caaccactcc aaactccatc cataaataat 240  
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tca 303

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<212> DNA  
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<223> Clone ID: LIB3075-001-Q1-K1-G12

<400> 42738

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gcttcagccc tttccagcga aagataaatg gctactgacg gcttggcaca catattacac 180  
gtgtcacgat gacagttggc ctcgatgaag cgccccgctg tatcttcata ctcaactgcc 240  
cctgcctgga gaagtccaat tgggtgctctg tcagatgggt gcaagtgaat ggtgaaaatc 300  
tcattgatag caaacaaaag gctcctcttt cacaagtttc tggtcagtga tttatgactc 360  
acggttcatt tttcctctat tgataacaaa aatgtgaatt tgtggactat ttctgcttat 420

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<211> 51  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-G6

<400> 42739

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<210> 42740  
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<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H3

<400> 42740

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gcaacatggt ggtcgagagg ctggcgact acctcgtaga gcaaggcctg tgaatggatt 180  
catttaacct cgctcgcttg tccatgggtc gcagcaacga taccaacacc cgcattatct 240  
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gcgtggctct gttaatcatc tctcatcctt cgtctgccat ttctcccctg agatttttgt 360  
tccttggttg taccatgcat tttggcaaat aattttgtga ttccacttcc aaattaaagt 420  
ttggttgctg tatggtttgt aaaccagaa ca 452

<210> 42741  
<211> 190



<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-A6

<400> 42741

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 ttccaaccac 190

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 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 ccgcatctgc gacggcatcc tcgccctgct cgactccac ctcgtcccat ccgccggcgg 180  
 cgccgagtcc aaggtcttct acctcaagat gaagggtgac taccacaggt accttgctga 240  
 gttcaagtct ggtgcagaga ggaaggatgc tgcggagagc accatgaatg cctacaaagc 300  
 tgctcaggac attgctcttg cagatctggc tccaaccac cccatcaagc ttggccttgc 360  
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<210> 42743  
 <211> 174  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-B4

<400> 42743

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cacaatattg cgggagccca cctacaccaa tttcctctat ctcaaattctt atctcttctt 120  
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<210> 42744  
 <211> 295  
 <212> DNA  
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<223> Clone ID: LIB3075-001-Q1-K1-B7

<400> 42744

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 gacgaatcaa gagggcgctc attccaaaag gccaaagattg agataatctt gggaaagagc 180  
 gacaaatttg atgagctgat ggccgctgct gcagaagaga ggggcgaagt ggaagatggt 240  
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<210> 42745  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-B8

<400> 42745

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 tcataatggt ctgattacaa aaatcaactt agatctacat caataaactt tcgttgctat 180  
 ccatgtttct gaccaatttc aatcaatcta tctttcactt tcatacactt attcttctat 240  
 taa 243

<210> 42746  
 <211> 147  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-C1

<400> 42746

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 <211> 423  
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 <213> Zea mays  
 <223> unsure at all n locations  
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 gatttaatac taaatccatc cgtacacatt atccattgtg ataaagatgc acaacatttt 240  
 catagtgtaa aaattttata ttagtcgtgt tcatagtcaa aagtgactta ngacactcac 300  
 acgattaatt tatggaacta aacttaatct gtcatatgca tcgtattttg ggtgttatta 360  
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 aaa 423

<210> 42748  
 <211> 112  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-001-Q1-K1-D1  
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<210> 42749  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-001-Q1-K1-A10

<400> 42749

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ccttctcgta catctccttc ggtgggtggca ggcattgggtg cctcgggtgag cccttcgcct 240

accttcagat caaggcgatc tggacgcacc tactgaggaa ctttgagttc gagctgggtat 300

cgccgttccc agagaacgac tggaacgcca tgggtggttg catcaagggc gaagtgatgg 360

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<210> 42750

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-A12

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gttccagccg gccatcatcc tgcttctcct gctcattgtg accaccgatg tggcgcatgc 180

ggcgagggaa tgctagaagg acagccagcg attacttggg gcatgcatgg cgtccgacaa 240

ctgcgccaac gtgtgccacg gtgagggtt ctccagccag aggtgcagca cctgtcgcgg 300

acgctgcatt tgcactaagt cgtgctaaat taacctacat ccggcagttc gatggtggac 360

gtttaatcta tgtattggct tactagattg ttcttcccct aacaatcaga aaactcacct 420

gctggcatgt acgtagaagc ggatatgc 448

<210> 42751

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-A3

<400> 42751

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 ag 122

<210> 42752  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-A9

<400> 42752

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 ggggtagcac cagtggaaga cgtggtggcg gacaagtctg tgacggttgt gaaggaggcg 180  
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 cgtgtgagga ccgcgttt 258

<210> 42753  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-B6

<400> 42753

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 cttcagcctc gacttcgaga agctgcagcg cgtcacgctc gacctcatca ccgaggcgctc 300  
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 cagtgaacta tttgaagagt gccagcagca gtatatggat aaacaagcaa aagccaaaga 180  
 gatgcatgag caacgagaat catcatggag acaattggaa gctgttggtg ctgccaaggc 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 agccgtggtg gtagtgccgg tgggtggtcaa agttctctgg gttatctctt tggaagcggg 180  
 gagccccca aaccagcagt ggcaccagct gcaagtgtc cacctgttga gaaaccatct 240  
 gctgcaaaga ctgatgcggc caagcaggtt gctgctgggg ttaccagtca aaccaataac 300  
 taccacaggg ctgatggtca gaacactggc aacttcctta cggaccgtnc tttaaccaag 360  
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 ccctgctggt gc 432

<210> 42756  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-001-Q1-K1-D11

<400> 42756

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gcaggtacca gtgctaccgt ggggtgctggt gtctccggag gtgccaaagt tgggtggtggc 180

gtaggaggaa atgcaggagg aagtggcaac gtctatactg gaaccgggtgc cgatgcaggc 240

gtttctggtg gaggatccgg tggcgccgat gctggtattg gagctaccat aggtgctggt 300

gtctccggaa gcgtcaaatt tgggt 324

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<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-D12

<400> 42757

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atatTTTTca gtgctcatgg agttcctctg gcgtatgttg aagaagctgg tgatccatat 120

aaagcagaaa tggaagagtg tatcgatctt atcatggaag aactggaaaa aagaggaata 180

acaaatccgt gcatacttgc ttatcagagc cgagttggac cagtggaatg gctgaaaccg 240

tacactgatg agacaattat tgagcttggg cagaaagggg taaagagcct gcttgctgtt 300

cccattagtt ttgttagcga acacattgaa actttggaag aaatcgatgt ggagtacaaa 360

gagttggctt tagaatctgg catcaagcac tggggacggg ttccagcact aggttgcgaa 420

cccacattca tttcggatct tgctgatgct 450

<210> 42758

<211> 478

<212> DNA

<213> Zea mays

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<400> 42758

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ttgcgagcgg cgcagaccct agtctcccgt tcccttttct cagcgcgcca tctaagcggc 180  
gcagcctccc ccgccacggc cgccgcgcgc ggcgcgcggt ggtgcgcagc gccggcgcca 240  
ccgtcccgtt cgccgcttcc atcctcgagg gtgatgcctg tcgggggttg ccggcgcaata 300  
tcctttctccc ttaccttcgc tactgtagcg gcggctgagg ccaatgccaa tgagcgaccg 360  
caaccggatc ttgtgcgcga gaacgtgggt ctgtaccagt accaagcgtg ccccttctgc 420  
aacaaggcca gagccttttt agattatcat gatataccat ttaaagctgt ggaagtta 478

<210> 42759  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-F11

<400> 42759

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tggctgacgc tgaggatata cagcccctcg tctgcgacaa cggaactggc atggtcaagg 180  
ctgggttcgc cggcgacgac gccccgaggg ccgtcttccc cagcatcggt ggcgcgccgc 240  
gccacaccgg tgtgatgggt gggatggggc agaaggatgc ctacgttggc ga 292

<210> 42760  
<211> 306  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H10

<400> 42760

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ttcttaggaa gaccctatgc ggtgggatga gacaggttgg agttctttgt gcccctgctt 180  
atggtgctga tcatgacacc gttcgaaagc ttgtcgatga tcacacgaat gctaaagcct 240  
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ggcgtt 306



<210> 42761  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-001-Q1-K1-H12

<400> 42761

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tcgccggcgg agcggccggt cgctgcgacg gccggcgccc ggctctgctg tcttctagca 180
ggaagcagca gcagcagccc gacgacgccg gctgcggcag cagcgacgac cactaccagc 240
acgacgtgat catgctgagg cggacgagga gcgggcgggc gttcccgccg ncgatctccg 300
tgatcgcaa gggcgggcgg ccgtggctct gcctgcgggc gcaccgcgag ggtggacgcc 360
tcgtgctgcg ggagatgcgc ctgccgtcgc 390
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<210> 42762  
 <211> 234  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H4

<400> 42762

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attctgtgtg gccgcgcgac ggatgtgcgc gtgacgccac ggcacggaca cggctggtgc 180
gggttccggg cggtcacggg aaggatgatg ctggactcct ctgagtctgc ctct 234
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<210> 42763  
 <211> 233  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H7

<400> 42763

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ctcaactttc tatcatcctc ctaccctgta tactcgctct ctcgatccta cccttattag 180  
cataaattcc aaacccccca atgaattcca tactatttca atatctctac ttt 233

<210> 42764  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H8

<400> 42764

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aagatcaact ttgcagtgtt cccatctctc caaggtggcc ctcacaacca ccagattgct 180  
gcacttgctg ttgctctaca gcaaactatg tcgcctggct tcaaggccta tgcaaagcaa 240  
gtgaaggcca atgctgttgc aattggaaac tatctcatga gcaagggcta caagatgggtg 300  
actgatggaa ctgagaacca ccttgttctc tgggatctcc gtccccttgg cttgactgga 360  
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cgtgacagca atgcattgt 439

<210> 42765  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-A12

<400> 42765

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accgccatcg ttactgttgg gtaccagctg ctgctcttca tcatcacaga tctcctcctg 180  
ttcgataagg tcaccgattt ctcacgcagt acaaatttta tcataatcgc catcctaaca 240  
ttaactttta atggagcatg tcattttcat cacattgtgc tcacaatgct tgtcaccaat 300  
ttgtgtcttc cactaagatt atttttattc att 333

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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-002-Q1-K1-B9  
  
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<210> 42767  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-002-Q1-K1-C10  
  
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 aaacatcaat atcatcagga acactcatca agtggacaaa gggcttttcc atcaatggca 180  
 cggttggtga agatgttggt tctgagttga gcagggccat ggagaggcag gggctagata 240  
 tgaaagttac ggcattagtc aatgatacag tcggcacatt ggctggtggg agatatatgg 300  
 ataccgatgt agttgcagct gtaatattgg gcaactggtac aaatgcagca tatgtggagc 360  
 atgcaaatgc aattcctaaa tggactgggt tactgcctaa atctggaaac atggtaatta 420  
 atacggagtg ggggagcttt caaat 445

<210> 42768  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-002-Q1-K1-C9  
  
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agcacaattg caactgggtct tgctattgat gcttatggtc ccatcagtga caatgctggg 180  
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 gtgtctctgg cgcttttt 318

<210> 42769  
 <211> 418  
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 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-F10

<400> 42769

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 tgatctcaca atcatcagt aactgtttta acaccgggaa tacaacataa aatactcggt 300  
 taagacactc tctactctaa tataataccc aatgaaagct gacaaacttg atcaacattc 360  
 cattaattct tatgataaat gaagacttaa cgctaacca caatttatgg aactattt 418

<210> 42770  
 <211> 187  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-G11

<400> 42770

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 aagacac 187

<210> 42771  
 <211> 328

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-002-Q1-K1-G9  
  
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 aaacctactg aggattacaa tgacattggc ggacttgaga aacagattca agagcttgtg 180  
 gaagcaatag tgttaccaat gacacacaag gaccgatttc aaaaattggg catttgtccc 240  
 cccaaagggg ttcttttgta tggaccccct tggaccggga aaacgctcat tgctcctgca 300  
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<210> 42772  
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 <212> DNA  
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 <223> Clone ID: LIB3075-002-Q1-K1-H10  
  
 <400> 42772  
  
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 gatc 364

<210> 42773  
 <211> 308  
 <212> DNA  
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 <223> Clone ID: LIB3075-002-Q1-K1-H11  
  
 <400> 42773  
  
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aactctctca tttgaatatt ccatatcaac aacggacaca ttatcaaact actacctcca 240  
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gccatact 308

<210> 42774  
<211> 201  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-H9

<400> 42774

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attaattggt gctggtcaag taacaaaaga tggagctctt ggcaactgcaa atgcacctat 180  
tcacatggtc acagcagaaa c 201

<210> 42775  
<211> 507  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A11

<400> 42775

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gcctgggagc tgcaacatgg tgggtgaaaag gctgggagac tacctgcttg aacagggcat 420  
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507

<210> 42776  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A5

<400> 42776

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<211> 353  
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<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A7

<400> 42777

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gggtcatgcg ggccccgaa ggtgccgcc ggtcccaaca tcaccaccaa ctacaacggc 180  
aagtggctca ccgccagggc cacctggtac ggtcagccca acggtgccgg cgtcctgac 240  
aacggcgggtg cgtgcgggat caagaacgtg aacctgccac cctacagcgg catgacggcg 300  
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<210> 42778  
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<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-003-Q1-K1-A9  
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 gatgctatgt ctgatgctgt ccgtccagca tgcattattg aaacaaggat aactgcttca 180  
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<210> 42779  
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 <223> Clone ID: LIB3075-003-Q1-K1-B11  
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 aaccctagcg aggcgagcga gagagaaact agacgccatg ttcgggtaca ggaaggcggg 360  
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<210> 42780  
 <211> 217  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-003-Q1-K1-B2  
 <400> 42780



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 aatctgtgct agaaggctct gctctagttt tatacat 217

<210> 42781  
 <211> 198  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B7

<400> 42781

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<210> 42782  
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<223> Clone ID: LIB3075-003-Q1-K1-B9

<400> 42782

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<210> 42783  
<211> 460  
<212> DNA  
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<223> unsure at all n locations  
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<400> 42783

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aagctggagc gcatcgacga cgccgtcagc cggatcctcc gggccaagtt cgccatgggc 180  
ctcttcgagg acccgctccc ggacccgcgc ctaccaagg agctcggcgc gcatgagcac 240  
cgggcgctgg cgcgggagggc cgtccgcaag tcgctcgtgc tgctcaagaa cagcaagaag 300  
gggcaggcga agccgatgct gccgctgcc aagacggcca agaagatcct cgtcgccggc 360  
agccacgctc acgacctgtg cagccagtgc ggcggctgga ccatcaagtg gcaggnggag 420  
aggggcaaca acctnaccgg cgtggcacca cgatcctgga 460

<210> 42784  
<211> 125  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D5

<400> 42784

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ttctt 125

<210> 42785  
<211> 69  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D8

<400> 42785

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atcatagca 69

<210> 42786  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E9

<400> 42786

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gaggggcatc aaccttgcct accgcgactc aagaggcagc gatccgtatg tcgtcctacg 180  
acttggcaag aagaaactta agactagcgt gaagaagaga tctgtgaacc ccatctggca 240  
cgaggagcta actctgaccg tcacagatcc cagcctagct ctgaagctgg aggtgttcga 300  
catggacacg ttcagcaagg acgacccgat gggtgacgct gagatcgacg tggcgccgct 360  
tgtggaggcg gcgaacgcga gcccgaggc gagcc 395

<210> 42787  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F2

<400> 42787

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gcatgcttga catcaaacac cactgcgact ggcaccaaag accttaaacc aagcacaacg 180  
ccgttgaact ttaacagcct atcaaagcaa gctccaacat caggagatgt ttaagtatcc 240  
taccctgtc cg 252

<210> 42788  
<211> 153  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H2

<400> 42788

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gggatgctat ggacctgggg ggggttctta ctaagttgag gtatattgca tgagatagca 120  
tgcaccggtt accatatata ctatttatac ttc 153

<210> 42789

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-003-Q1-K1-H7

<400> 42789

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caggacngct ccatcacgct tcccgcctac gccgaccgc gcaagatgca tgcgcacctc 180  
atcagccccg gacgcgcgc tccatcttcg tctacttcag gggcctcttc tacgacatgg 240  
gcaacgaccc cgagggcggc tactacgcca ggggcg 276

<210> 42790

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A12

<400> 42790

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<210> 42791

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A9

<400> 42791

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 aggcgtagga gcatcagaac acgtacatgt cggatatgtg ctatagatgt ttactgggga 120  
 ggatgatctg caccgagtgc tagtccttga cagacgggat agagatgctt catgatgcat 180  
 attacgcgga cc 192

<210> 42792  
 <211> 529  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B11

<400> 42792

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 gggcagtcct tccaggccgg caaggctgag gcccagggcg agtaccaggc ggagcacgcg 180  
 gcgcagtgcg tcaaggacac cgtcgcagcc gcggccgaca gtgcgcagct gcagcagcac 240  
 cgccccaccg gcaccgttga gcaggtggcg cacacggggc agggcggtggc ggcaggcgtc 300  
 aaggacacgg tggcggggcg ggcgggttggc gtcacgaaca cgggtggcggg cgtggcagcg 360  
 ggcgtcacga acacggtcac gggcgccgtg gcgggcgtca cgaacacggt gaccggcgcg 420  
 gcggctggtg tcaaggacac cgtgaccggc ggccactgat cgacgacca agaatgcttc 480  
 atgcatggcc aagtgttgag ggtttgaggc caaagatggc ttgaatttc 529

<210> 42793  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-004-Q1-K1-C1

<400> 42793

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 catggttttc gagctttggt tgtaatggag gatcattcac tcttgtaaat tcaacaaggt 180

gaggttggtt ggagcagaga cgatgggctg gcttcaattg ttgatgtaac aacatcagaa 240  
 ttgcctgttg agaaggatgg tgtatcagtt gttggtgtgg aacacaatct ctttgagtgg 300  
 cttaagggac acatgctgaa actcanagga actctaattg ttgctaattg tgatgaagtt 360  
 gctgcaatcc aagcattgag actaaagagc tctgagaaaa atangatgac aagagaccat 420  
 tatggatt 428

<210> 42794  
 <211> 497  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 42794

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 caacttctac cgcaactatg gtaagacgtt caaaaaacca aggcgtcctt atgagaagga 180  
 gcgtcttgat gctgaactga agctggtctg gtgagtatgg gctgaggtgc aagcgtgagc 240  
 tttgcagggt ccagtatgca ctgagcagga tccgtaattg tgcaaggcac ttgctcaccc 300  
 ttgaccagaa gaacctcgt cgtatccttc acggtgagge acttcttctc cggatgaacc 360  
 gctatgcgct gcttgctgac ggtcagaaca agcttgatta tgttcttgcc ctcaccggtt 420  
 aaaactntct cgcaaggcgg cttcaaacac ttgtattcaa tgctggcatg gccaaagtcca 480  
 ttcaacatgc tcgtgtc 497

<210> 42795  
 <211> 503  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C11

<400> 42795

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 cttggatggt gggctctatg agcattacaa gaagttcagc agctgcgtcg aagcaactct 180

tacagacttg ctcggcgaag aggcctcttc ctccgtggtt gccaaagtgg ccaacgatgg 240  
ctctggcatt ggagctgctc tccttgcac ctcacactcc cagtatggcg agagtgacta 300  
gtcttgaaaa ctggtgtgga tcgaacttcg agtgtagctc tcatttttat ctttttttcc 360  
cttcaaaaca tccctaatat tccggctctc ctcggagaat ttttcggctt cttttcttgg 420  
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tttcgagggtt atctaattggc ata 503

<210> 42796  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C8

<400> 42796

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accgttaact gcaatgatct caaccgccac gtgctcggtt tactcgagca gaggctcacc 120  
aacttcacca agatcctcca catcgacgcc agcttcatca acataatcaa accgctttca 180  
tcgtcactta cagcgcgaac tgtcacacca tgatcaccta catatgctca gccagcttct 240  
tctaactaac atagctgcat ctataataaa ttgaagcctc taataattag ccatcgttct 300  
ctatagttcc tttctttctt cgttttagta tatgcacctt tt 342

<210> 42797  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D11

<400> 42797

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gctagggtcac tttgtcaaga tcttccctgc tgtggcacat ggatggagcg tgatatacag 180  
cctatatgat gcagctgccg tgatgagcgc tgaggatgcc tttgccgaca tgctcgactg 240  
ggtcgaaccc gaacctatag tgaactctgc accttgtaat aataatgcgt attccattgt 300

cctgcaatcg gatctagctg ctgcagggct gccatccaga gttgaacaca tcatctagac 360  
 atcattatgt agctcgtacc cagattaaga ccctatatta taca 404

<210> 42798  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D4

<400> 42798

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 gatgagagcc ttgttccctcc tggctcctctt gggcatgggtg catgggtgaga aggaagagtc 120  
 aaagggcatc gatgcgaaag cgttcgggtcc tggtaggtcc ttcgacatca ccaagctgtg 180  
 cgctccggc aatggcaatg acagacagca ctaatgctgt gcaagatgct tgggcattgg 240  
 catgcgagcg tactgcgaaa cagacaatgc tcatacccaa gggcgaatta cttgtcggac 300  
 aa 302

<210> 42799  
 <211> 230  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D8

<400> 42799

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 aggtttgctg tactaaaaaa taaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaagg gcagacgtta taaaggatcc aaccttacct actcgacaat gcaacatcat 180  
 agctttccta tagtgttacc taaattcaat tcacattcac gatgttttac 230

<210> 42800  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-E10

<400> 42800



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caaactatcc tgaagatgca tcaaaatccc caagctgtcc acttcgatga tcttgacat 180  
ttatgctgga tggcttgaat ttgttaaaaa aattgtcatt gataaatatc ctgggtgtaac 240  
tgtcagctat aatcacagcc ttctattttg cctcactttg gttgacatgc cttgtaatta 300  
ctcgccgtct cttgactgat gttgtattgt cccatcgaaa ggacacgtgt atcataagac 360  
atgggcaatt atagctaaaa gacagctcag cgttcagacc tactcagcat gatgctctga 420  
gtgcatatac gctacaagcc taca 444

<210> 42801  
<211> 54  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-004-Q1-K1-E12  
<400> 42801

tctaccttcc taattcccgg tcgaccact ctccggactc ccactaccta caca 54

<210> 42802  
<211> 522  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-004-Q1-K1-F10  
<400> 42802

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tgctgcagcg tggttttgct ccaaattcaa caagcacgat ttccttgatt aggggtctat 180  
ttgaaaatgg gatggttgta gaagcagatc aggtgattca tcagttgttg aactgttggt 240  
cccttgctga tgcagaagca tcaaagctc ttattgacct caacttatat gaaggtaatg 300  
tggaactcagt cttagacgtt ctgcatggca tggcaaagga tggactgctt ccaagtccaa 360  
gatgaggggtg attttcaaca ttcaagaacc accctctctg tggaatactg gagacctgat 420  
tgtcatgttt ggtacatatt gtctcatgag tcataacacg agcatctgaa tcagtgttat 480

gtggttaagaa cggctctgccc taaatcatga tgtgtccat at 522

<210> 42803  
<211> 214  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-F12

<400> 42803

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ctttctattc aactcacctt accattccta ttaggttgct tttaaaacac atcataccac 120  
tcatataact aatctaacat acaattccat accaatatc actcccacta tcactctcaa 180  
accatactt tccaaatatt ctatcacaaa tata 214

<210> 42804  
<211> 467  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-004-Q1-K1-G11

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ccgtgctccc atgggcgcgc cgcgcgcaat ggcccacga cggcgcccc taccgtcgcc 180  
gctgctcgtc tggctggccg gctgtttctc tgcggtggcg cccggtgtct ccaagaccga 240  
caagtctcac gctgctgcgc tcaatgtgat gttcaatagc gtgaacaagc catcgcaatt 300  
gtccggttgg aaatccagcg gcggtgatcc ctgcgatgac gatgacgagt ggaaagggat 360  
agagtgcagc ggctcatctg tcacataaat taactngtca gggcttgaac tacagggctc 420  
gctaagacat cagctatcaa gcttgaaatc agtgacaaa tttgatc 467

<210> 42805  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-G2

<400> 42805

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gcttctacga actgtatcgg ataactcagc tctacccaaa gggtgatata tttgctcagc 180  
ttcagaatgc tagtgaagca tttagaacct atatcaggga tgggctagct caggtggaga 240  
agaatgcagc agctggaaga acgccttcta gtcttccact gtccacgcca cccccaatag 300  
cagcaatacc ttctccaaaa ttggcaccgt cccagttca cacaaaatca attggttagca 360  
aaacagatta taacgaagat aatgccagtg gtgagacaca acctttcata ggtcaagggtg 420  
acgcccctga ccaacaaact gatagatac 449

<210> 42806

<211> 217

<212> DNA

<213> Zea mays

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<400> 42806

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aaccacatct aaaaaaatcc atacttactt acactttcat acaacttcat atctcttcta 180  
tattttcacc tatattcaat ttactatctc ttctttt 217

<210> 42807

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-G6

<400> 42807

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accggttctg gagcactaag tgccttctct cctaccctta cctaatectc aaggtccaca 180

tgtactatct tgaagctggc gcacacatta taatcacagc atcttatcat gccactattc 240  
aagggtttga atcaaagggg ttttcaaaag aacatagtta aaacttacta acaaatagtg 300  
tctatattgc actggaagct cttgagatgt tcttga 336

<210> 42808  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-G8

<400> 42808

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aaaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaacgcact ttataaaaaa tccaacctta 120  
cctaccctta cctcctactc caaatctctt ctataacata acctaaatcc aattcactcc 180  
ccaaccta atacaatctt cactatcaaa accctactaa taccacaacta aatcaccttg 240  
accacatca cccctttttc caatttacct attaacaaaa ataccctcac aaatcaacct 300  
tatcatcaaa ttctcatact catcacttaa ttatactcac c 341

<210> 42809  
<211> 87  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H12

<400> 42809

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<210> 42810  
<211> 486  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-004-Q1-K1-H2

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gagtgatcag	gatcttggtta	tttcatttgt	gttcgggaga	ggggttggtc	cacagccata	180
cggaaacgaa	aggttgatgt	acagggagca	gagaggacta	aagtcggtag	aagtgagctt	240
gatctaggac	agtgctctcc	aattcgttcc	attgaacaca	agtagcagta	caaatagaac	300
tcacctaag	atccttggag	gcttcacttg	tatatactca	gctgggtgga	taggtgggtg	360
gtgtatgggtg	tgattttggc	atccaattgg	aatggcaaag	gtaatagtgt	tattgtacta	420
agaattcttt	cccttttttt	tctttctcgg	ggcctatatt	ctcatgttgc	aaatattttt	480
gagttg						486

<210> 42811  
 <211> 533  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H9

<400> 42811

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cattggcctt	ggcttcaaga	ctcccaggga	agcaattgaa	gggacctaca	ttgacaagaa	180
atgcccattc	actggaactg	tttctatcag	aggcagaatt	attgctggga	catgccacag	240
tgctaagatg	aacagaacta	tcattgttcg	catgaactac	ctgcactttg	taaagaaata	300
ccagaggtat	gagaagaggc	actccaacat	tcttgcac	atctcccat	gcttccgtgt	360
gaaggaaggt	gaccatgtca	tcattggcca	gtgcaggccc	ctgtcaaaaa	ctgtgaggtt	420
caatgtcgtt	aaagtcattc	cagctggatc	cgcagctgct	ggaaagaagg	ccttcacagc	480
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<210> 42812  
 <211> 256  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A3

<400> 42812



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 gtgccatggc tctttgcttc aagcagaaaa actatgcaac tgcggcacac tttgctagga 240  
 tgcttcttga gaacagccct caggaggccc aagcaaagaa ggcccgcacag gtgctgcaag 300  
 cttgccatga caaggacgat tcccaccaac tgaactatga cttcagaaat ccattcggtg 360  
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<210> 42816  
 <211> 214  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C10

<400> 42816  
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 cttttgatac ataaagtatt ctgcacctat acca 214

<210> 42817  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C5

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 gccgcgctcc tcgtagacgg cgtcttgccc accgcattgc tggccttcac cgaggccttc 180  
 gccgtcggat ccccatgcgg cttcgagtcg tctgcgttcg gctaa 225

<210> 42818  
 <211> 377

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-005-Q1-K1-C6  
  
 <400> 42818  
  
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 gatggatgcc aaaccaaggg acgaggaagc tatacgatta aaggctgctg gtggtagagc 120  
 taatggacat ggaacaagga agacaaggac acggtaccgg cctagggctg ttccagctcc 180  
 agaggcaaac gccgaactgc aagcaaatat tgataaaaga aggttaataa ctcattgcaa 240  
 tgcaagagc aagagcgaaa agttcccttc gccgtatcag gattgcgcac ttggatttac 300  
 cttgggctgc ttcaaccaca ttgaatcatc atttgaactc ctaaaccctt cttactttaa 360  
 cactttattt acttacg 377

<210> 42819  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-005-Q1-K1-D1  
  
 <400> 42819  
  
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 ccgccgccgc tccatcccgt aacgcgacac catgagggag tgcatttcga tccacatcgg 120  
 ccaggccggt atccaggctg gaaacgcgtg ctgggagctg tactgccttg agcatggcat 180  
 tcaggctgac ggtcagatgc ccggtgacaa gaccattggg ggaggtgatg atgctttcaa 240  
 caccttcttc agtgagactg gtgctgggaa gcacgtgcc cgtgctgttt ttgttgacct 300  
 tgaaccact gtcacgatg aggtgagaac tggcacctac cgncagctct tccaccctga 360  
 gcagctcatc agtgggaagg aagatgcagc caacaacttt gcccggtggtc actacaccat 420  
 tggc 424

<210> 42820  
 <211> 378  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3075-005-Q1-K1-D12

<400> 42820

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catcagcgac ttccgccctt tttttttttt tttttttttg tgtttttttt tttttattta 120  
ttatttatta taaattatta aaacataatt aatattttta aatatttctt ataaatttat 180  
tttataataa caaaaaaata aaaacgatat tcgctataaa aaaaaaaaaa aacgtaatca 240  
cgggtctacaa tatacaaaaa tacgtactca aacatgaaaa ataattattat atatataggt 300  
taacctacat ccaactcact gttcatcttt ataaaaactc ctcaatataa aaaaacttaa 360  
aataacacaa cttaattt 378

<210> 42821

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E3

<400> 42821

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aaagttctac aattctgcc aatcatctct ctcgggccct tccgtagctc taggaatgtc 120  
gaagatggct gcgcagactg ttggtaactc agtatccgag tttctgtcgg gcttcagcga 180  
tggaagaca gactcggcag cgagagtctt attcaagtac ggggtgcacga ggggagtctt 240  
tggcgcgccg ttcttctttg tgaatggctt cctccagcct gggggcggat cgcctatcga 300  
ctacagcacg tggatcggca tccagacctt ccttggttcc cagaacggtg aacggatcga 360  
gatgtttact tcgatgtaag tg 382

<210> 42822

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E8

<400> 42822

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attatcattc attcgaacga ttgacagaaa aagaaaaaga gtgctaaaaa gaacgagtat 120  
tactgacat ttcgtggcat tgttctccgt caaggagggtg ctactctacg ctacccaaaag 180  
gccaaagaga gagctcacag aaatttctctg tccttttctg caagcacaaa atttccgaaa 240  
tctctgccga ctaataataa ttctaattac gcgaccgatg atcgatcaaa tcactagacc 300  
aaattctgcg ttccatcgag gacgagtatt gggctgcgaa cagagtac 348

<210> 42823  
<211> 491  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F10

<400> 42823

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gagagccttg ttctctctgg tcctcttctg catcgtgcat ggtgagaagg aagagtcaaa 120  
gggcatcgat gcgaaagcgt cccggcctgg tgggtccttc gacatcacca agttgggcgc 180  
ctccggcaat ggcaagacag acagcacgaa ggctgtgcag gaggcattggg catcggcgtg 240  
cggcggcact gggaagcaga caatcctcat acccaagggc gacttctctg tcggacaact 300  
caacttcaca ggcccttgca agggcgacgt gaccatccag gtggatggca atctgctggc 360  
gaccacggac ctaagccagt acaaggacca tggtatttgg atcgagattc tacgcgtgga 420  
taacctggtc atcaccggca agggaaacct tgacgggcag ggcccatccg tgtggagcaa 480  
gaactcctgc a 491

<210> 42824  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A2

<400> 42824

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gagcattggg tgtctgttct ggctgctcgc ccgaatggtc ctccagatgc gcggtacaat 120  
tcttcagga cacaagtggg acatcatggg agatcttttc ttctacagag acccagagga 180

agcgaagcag ctggaggaag aagaggctct ggttgacact gactatggcg cggttgcaga 240  
 atacactgca ccaggcgctg acaactgggg cggatgaatgg ggtgctggcg aagctgcagc 300  
 tccagctgct agcattccag ctgctggcg 329

<210> 42825  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A8

<400> 42825

ttccccgggtc gacccacggc ttcgggcctg cagaagatgt tcggacagag cctgatgtct 60  
 cacaggaaca aactgctaac gaggacggag gccagaccac ctttagctac gaccgcttgg 120  
 tatcaaagtc tactgacctt gtcagtggga tagaccacaa gcgcagagag acatatttgg 180  
 tggacaatga gttcgagacc gtgtttggca tgaccaaaga ggagttctac gagcagccaa 240  
 ggtggaagca agagttgcag aagaagaaag ctgatctttt ctgaactcac acacacggct 300  
 agctacgaat aaaagccctc ccg 323

<210> 42826  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B2

<400> 42826

cttcgagaga aacgttataa ttaactatcc gtttgagaag ggtcctctga gtccccgctt 60  
 ccgtgggtgag cacgctctca gacgttacga atctggggaa gagcgttgca ttgcttgtaa 120  
 actatgcaa gctatatgcc cagctcaggc aattacaatt gaggtgaag aacgtgaaga 180  
 cggcagtcgc cgaaccacaa ggtatgatat tgacatgacc aaatgcattt actgtgggtt 240  
 ctgccaagag gcttgcccag tcgatgctat tgttgagggg cctaactttg agtttgctac 300  
 tgagacacac gaggaactac tgtacgacaa ggagaaattg ctcgagaatg gtgaccgctg 360  
 ggaaactg 368

<210> 42827

<211> 178  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-B3  
  
 <400> 42827  
  
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 gttcttcggg gttcgggttc gtgggtgagc ggatcgagat ggcggcgtcg gatgttgagt 120  
 accgctgctt cggcggcggc ctgcctggg ccacggacca ccacttcctt cacaacgc 178

<210> 42828  
 <211> 75  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-D1  
  
 <400> 42828  
  
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 aagggtttttt taaaa 75

<210> 42829  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-D12  
  
 <400> 42829  
  
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 tgctaccaga catctttcct aaaaaaatt tcaataatac ccatttcaaa ttattgtagc 120  
 tgataccatt catcacctgt gactggcagc ataaatgcta ccaccctcat gactcgtacc 180  
 gcgcacgcaa caatcaaaaa cacaaactat ctatgctaca tcgtgaagac aactcttgac 240  
 caccttctct tatataaaga cagaaaggct tgcagcttat actatgaagt cagatgcacg 300  
 gaaaaacctg actgctcagg caatccattc acggagtaca taactgacat gaactacgag 360  
 cctatcaatc cct 373

<210> 42830

<211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-D2  
  
 <400> 42830  
  
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 gattgtccct tttgctctgt gcctcatgtg ttacacccca ctgtatacag tgttcaagcg 120  
 tgaccgagaa aatgctagat tggccagcat caaggagcag gaacttactt gaaaagcttt 180  
 ctaacaagga gtactgatgt agtttggatt acatagtcta caacaccggc aacctggagg 240  
 ttttgattga agtactttgg ttgatgtcta ggatactcaa gttttatggt tcttcagtcg 300  
 gatatcattt atgagtacac atcttgtaca caggcgatag attgtttggt ctcgtcgtat 360  
 gtaactgggt cagtatacat tc 382

<210> 42831  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-E12  
  
 <400> 42831  
  
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 cgtcgagcga gcagtcttcc aattccaggc gatgactaat aacatctcct ggaacgccac 120  
 gttccttggga ccaactatatt caggagcgac gaagtgatcc acccgccagc catggagatg 180  
 aagaaggtcc tctgcgcgc cctcgtcgtc gccgtctcag tcaccgacgt gctggcctct 240  
 gtcgcctccg aggcgccttc cgaagcgccc gccgacgca gcggtggtgc ggatggccct 300  
 agcgcagtcg gcgacgtcgc cgacgtcgtg cccgacgtcg gggcgctcgt cggctcctta 360  
 c 361

<210> 42832  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-E2

<400> 42832

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acaaggcccc tttcaacagc atggggcgcat gtggcaacgt ccccatcttc aaggatggtc 120

taggttgtgg atcctgcttc gagatcaagt gcgacaagcc agcggagtgc tctggcaagc 180

ccggggtggt gtacattaca gacatgaact acgagcccat tgcgggcgtac cacttcgacc 240

tagcaggcac ggcgttcggt gccatggcca agaagggcga ggaggagaag ttgcgcaagg 300

cgggcatcat cgacatg 317

<210> 42833

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G10

<400> 42833

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cctgatcgag ccgaaccaac ggccgacgcg gcgcacgcca tggtagcagc tggcaatcca 120

ccttcaaaac cgtgggaacg tgcaggaaat tcatctggcc cagtgccttt taagccggcc 180

tctggtggta gcaccagtga tgttgttgaa gcttctggga cagcaaaaaca tggagaagct 240

gtatatgctt ctggaaacaa tgttgcttc aatgtgaaca gcacaatttc aatgcctgtg 300

cccccaaggc cttggcagca gcaaggctat gaaaactctt atgggggtta tggctccagt 360

atgtatagc 369

<210> 42834

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G12

<400> 42834

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gattccagag gtcgtggtgg aaaaaggac tgggtgtggt ggcggaactg gcggtcacgt 120

agctgtgcga gacatcgaac tgtcttgata ctgcgactca tgcttgcttt cattcagcat 180

acaatgccat gttgggtatg ctgcctgagg tggaacggtg agtgggttaa gcaaggtttt 240  
tagagcgtct gatgactttg ccaagaggat tgggacacgc tctagactag cgcatgaagt 300  
gctgggtgca ctgcatgcta g 321

<210> 42835  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-H11

<400> 42835

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cgcgacagtc gacaggagga aggaataagc tcagtgcagc acagcgaagg gtgagaagcg 120  
tactgctctc gtgaccagag cactgcaccg acagacagag ctcgttaatc tctgacgacg 180  
accagtggat taatacgcac ggcagctatg gccacttagc aggtcgttgt aacgcccgcac 240  
ggactgggcg tacatgacgc atccacgttt cgacgtggcg cctcacaggg cctgaagggg 300  
gtccaggcat atgtgacggt tgacactctt attatg 336

<210> 42836  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-H12

<400> 42836

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tgctcgccac ggcgatgcta gctacactat tcgcggttgg tttgtgcacc accccgctca 120  
ccttcagggt cggttaagga tccaagcctg gccacctgat cctcaccccg aacgttgcca 180  
ccatatccga cgtggagatc aaagagcatg gtggcgatga cttctccttt acgctgaagg 240  
agggcccgac cggcacctgg aactcgcaca ccaaggcccc gctcaagtac cctctttgca 300  
tccgctttgc tgtcaagtct ggtggctacc gcacgtcoga cgacgtcatc cccgccgact 360  
tcaagggtcg caccacttta tagacgacac tcagcatcta atcagcatct tgagatgaac 420  
tatattttca aagagc 436

<210> 42837  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-H2  
  
 <400> 42837  
  
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 gcccggttgag gaactgtaac tttatgtgac ggaatcacia aaatttacca ttgtatttgt 120  
 tcaagctaca cgtgccacag ttttttatgt tgtgatttgt aggtacgggtg aagtttagacc 180  
 tctagtgtcta ttgggaagaa aaaaattacc attacattta tttaatatat tttccttttt 240  
 tccttgtaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa gataaacg 288

<210> 42838  
 <211> 322  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-006-Q1-K1-H3  
  
 <400> 42838  
  
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 ggtttgtgca ccaccccgct caccttcacg gtcggttaagg gatccaagcc tggccacctg 120  
 atcctcacc cgaacgttgc caccatatcc gacgtggaga tcaaagagca tgggtggcgat 180  
 gacttctcct ttacgtgaa ggagggcccg accggcacct ggacactcga caccaaggcc 240  
 ccgctcaagt accccctttg catccgcttt gctgtcaagt ctggtggcta ccgcatcgtc 300  
 gacgacgtca ttcccgtcga tt 322

<210> 42839  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-006-Q1-K1-H7  
  
 <400> 42839  
  
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tgcataacttc gttgccgttc atggagtggt gagtaaatgt aaacttaaaa gctttcgcac 120  
 agctcaaact accaagagtt cctccaggca aaaccaccag ctacaccgtc aactgcgacc 180  
 tataagtaga tcagcgtctc ttcttgcttg cctttgagct gctcttcgac gggctcgcga 240  
 caaggtagat aaacagtcca acaaaagaga caacagacac aagtgacccg tatttcatca 300  
 caagcctctt agcccattca aacttcttct ctggaggtct ctcagcgaga atatccagtg 360  
 ngaagatggg agttgagtat gccttctgaa gaactgtctt tgtgggaaca cggtatgtaa 420  
 ta 422

<210> 42840  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B2

<400> 42840  
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 tcttcattct ctggaataac taacagtata tacgttgac cctgatgata tagaaacatg 180  
 tacgtgcatc agtgtatgga atgcgagtgg caaacacatg gaatgtgctt gcctaattat 240  
 tgtttatttc tttatttatt atatgtctct ctcggttggt ttttattttt cttaatgcat 300  
 gtaatataat ttgttatacc ca 322

<210> 42841  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-007-Q1-K1-B9

<400> 42841  
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 tnnccctctc aactgagggc gcnnccctga taccctaaagg gctaaccgctg tgagaaagat 180

gateccacga tcaatggttc gagaccctt caacaccccc gcttatgtac cgtnncgcca 240  
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 ctcgacttcg ggaagaatcg gtgtcagcca cacttgtcnc cccatctacg aagggaaata 360  
 cgcccttcn ncaacgccat ccccttcgtc tcgaccctgg ctgggcccgc accnctcacc 420  
 gactacctca tgaaagatcc cctgactg 448

<210> 42842  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D5

<400> 42842

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 tagatctccc tgettagttt cttgagatcg agggctccag ttcttgcttt gcattctgca 180  
 accgttgtcc aaatgtccac aatctttgcc ttccgtcaaa ttttaataca tggtcggaac 240  
 attgaggcaa aaaaaaaaaa aata 264

<210> 42843  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-007-Q1-K1-F11

<400> 42843

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 ccatgcgagc gaacaagcca accgaccccg tccccaaggc aatccgccgc cgacgtacca 120  
 ccaccaccgc aggagcgaga tggagatgaa gaggatcctc ttgccgctcc tcgtcgtcat 180  
 cgccgcctcg gccaccgcag tgctggcctc caccgaggcc gccgccgcgg gcgccccaac 240  
 tgctccgag tcgtccgccg aggtccccgc tggcgctggc gctggcgctg ccgctggcgc 300  
 cgncgcctcg gggccctccg ccagcagcgg cgcgcccgcc ctgccgccg cgcccgccgc 360  
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cgcatggacg acgatggatc

440

<210> 42844  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G1

<400> 42844

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aaagattatt ttcttttagc aaaaggtgac tttttccagt gttttcttga ggaaagccgc 120  
caattaatgc ggttaccacc tcgtcaatct acagccgaag cagatctcat gattccattt 180  
cagctggctg cactgaagac tatcggtagag gaagacaagt actttaccag agtctcatta 240  
aggatgctat catatgggtat gaaaagtagc acgtctcaga aagatcttca aaagcctaatt 300  
gcttcagagc tttcttcaca aggaaaagct gcatcagaat tgacacttga tgggtgggat 360  
agtattgctc tggaatatcc tattgactgg gc 392

<210> 42845  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G3

<400> 42845

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acacaacagg tcagcaggca tcgctttatt tacaacagaa cgcctaaatt attcacaggc 120  
gtgcattcac atatgtgaag gaaaccgttt tgtacatcaa ggtgaggcca caccaaagtt 180  
ggcccaagga atgacaaatc aaatagcata acaatgtgat ctgatatgcc tgtgaagcaa 240  
gtctcatctc aattcttgac aattgcaata ccttcagaag ct 282

<210> 42846  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G7

<400> 42846

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ggtattccaa agcttgggtc tagtaacaga acagcagctt atcgggtcgt cacactgatt 180

gatgttatgt acgagaacaa ggcaaggctg ttatgtacag ccgaggctgg accagtagga 240

ctgttcgaga atatcgtgac tgttgctgaa gcacggaagg tttcaccaag atcttcacgc 300

tcacagaaaa gcgacgacac tgacctatgc gtggacaatg agcttggatt tgccaaggat 360

cgtacgatta gcaggttgac agagatcaac agcagagaat atttggagga cttcgaaatg 420

agattgaggc aacagcagca gctgcccttg caaggtcta 459

<210> 42847

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H8

<400> 42847

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gtctctgggtc gctgccatgt gtgtacactc gattgtaact gacattggct accgaatgaa 120

tatcatgccc ctctagcctg tgtaagagca cctgtgggtc ggttaaggga gtaaaactaa 180

accggttgta gagatgcaaa taaataaata attacagtgt agaatgccac ggacaatcgt 240

ccttgggaatt gttatatttg caaatcatca agcgcagctt ccttcggtga taa 293

<210> 42848

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-A4

<400> 42848

ccgggncgac ccacgcgttc ggccaagcct tccgaaaacc atggttgatga atgtgaaacc 60

catgtgggtcgc tcgatccggg cgcgggttgc gatggctgtg gtgttggtgt tcttggtgag 120

cggcgcgatgg tgcggtcctc ccaaagtccc cccaggcaag aacatcacgg ccacctatgg 180  
caaggactgg ctggacgcta aagcgacatg gtatggcaag ccgacgggtg cgggtcccga 240  
cgacaacggt ggtggctgcg ggtacaagga cgtgaacaag ccccccttca atagcatggg 300  
cgcatgcggc aacatcccca tcttcaagga tggctctgggt tgtgggtcct gcttcgagat 360  
caagtgcgat aagcctgtgg agtgctccgg caagcccgtg gtgggtgcaca tcacggacat 420  
gaactatgag cctatcgagg cgtaccactt cgattagcag gcacggcggtt cgg 473

<210> 42849  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-008-Q1-K1-A5

<400> 42849  
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tgaggagag gacccctcac tagggtttcc tccgacggcg ccgacaaaac cagaccatca 120  
aacaagtgcc agcgccctct cgcagtcgcc gcaatggaga gcaccttcat catgatcaag 180  
cctgacggcg tccagagggg cctcattggt gagatcatca gccgttttga gaagaagggc 240  
ttctacctca aggccctgaa gcttgtgaac gtggagaggt cgtttgtga gaagcactac 300  
gccgatctcg cctccaagcc cttcttccag ggccctcgtg actacatcat ctctggccct 360  
gtggtgcca tggctctggga gggcaagagc gtcgtcacia ctggccgcaa gatcattggc 420  
g 421

<210> 42850  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-008-Q1-K1-A6

<400> 42850  
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tccaaagccg agcgggtgctc ttctccacc ggccgaaccc ccgtcgaacc cttcctgtca 120

cacgtacaaa ctcaagggtg aagacgaccc aaaatatattt atgtattttt gaaattttctt 180  
 ttgattcaat ttgtgaattg tatatttatt atgttgtaat aagagcatgt tgcgattcga 240  
 aattcacgtg tatgcgcgct atggaatttc tggtagatat atgcgggttag tagtgcaccg 300  
 tgattattct tgttattcga tgcgatgact tttagaatgt tggattagag agaaatatga 360  
 cgaaaattta gtagtcacac gttggtgata aaaacactag atatgaaatt ttatagttaa 420  
 ttttggtcac atttgacttt tg 442

<210> 42851  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B10

<400> 42851

cggacgcgtg ggcgacgcg tgggtttttt tttttttttt tttttttttt tttttttttg 60  
 tgggtgtttt tttttttgtg tttttttttt ttttttgtt aaaaacgcga gcgggcgctt 120  
 taaaggaacc aagcttacgt acccgggcat gcgaaggtaa aactttttta taggggaaac 180  
 aaaaatcaaa t 191

<210> 42852  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-B3

<400> 42852

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 gcctgatgac caagcagttc tgcaaccgct ggcaggcatg tcacacacag gcttgtaaaa 120  
 tgtccaggcc tcgtctcggt tcctcttcgc tccccgtga cgtcagtagc ccacccatcc 180  
 tcaccggctg tcggcaccag cccgccgcg accccgcgc cgtgtcacg actcacgacc 240  
 cattgtggtt tcagatcaga cccgaatcgc gagcagcgat ctgtacgtcg tccccgttcg 300  
 cagcctagc gcgatggcgc acccgatgta cggctccggg ccaactcagat ccaggaacgc 360  
 ggcgaactcg gacgaaatcc agctgcggat cgacccgggt gcacgggacc tcgacgagga 420

gatecgacggg ctgcaatcan ggtccgcatg ctcaaagg

458

<210> 42853  
<211> 472  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-008-Q1-K1-C2

<400> 42853

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cttatgtca ccctggccgt caataacgcc caggaagaag attcacagcg gacgctcccc 120  
ccgttccctt gcatcccagg ccagccacga ccccggtggc tcccaccctg cccgccagcg 180  
ccagctgagt gctacacgtc ggtgtcgggg ctgatgccgt gcgcggactt cctcaccac 240  
atcgggctgg caccggcacc acccacgagc gcctgctgcg acggtctcag gtcgctcgtc 300  
accaacgcgc ccatctgcat gtgccacgtc gtcaatggcg acatcaacaa gtcctaccg 360  
gcgcccata taccgctgcg catggtggcg ctccccgct tgtgcgtcgt ccccttccca 420  
cgagccacga ttcgccagtg cattaaaggc catgtgccac ctatgaaccc tc 472

<210> 42854  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C5

<400> 42854

ttcccggggc gaccacgcc gtccgtttat tggggcgaaa agcgatgagt caagaagaat 60  
ggtggagaag aaagtcgagg ccgccgcggg cgaacttgcg atgggccaac acagagacca 120  
tggcgtgctg ctcagggggg ttgccggggg tcgggaaggg tgtattcgtg aaggccgatg 180  
ggttgagcgc ctctgtggtg gcatgattcc tcgacggact tggtggtcac catggaatcg 240  
cgctccgtcg ccgagaggac tccctgcgca accatcctcg aagcgagggt gcgaggcacc 300  
tacattctac attggagaag tacctggagt tgcacaaaa aggtcaagaa caggtaccac 360  
tggaggaaca tgaaggatgc tacgatgagt tcggagaggt ctaggtcgtc gtctcctagt 420

caacta

426

<210> 42855

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C7

<400> 42855

tccagctgat atcatccaaa acaagcccaa tagcatgatc caaaaagaga aaagtatgtg 60

tgttatctag cacgatgcc a tccttatcta acttgaacta ttttttagtat gtaaaatttg 120

cattatagat tttcttattg gtactgaaga agttggtgat tcttttgagg atatttcagg 180

aagccctggg gttgaagctg caaaggattt taatgcttct gcaaatgctg gaacaagatc 240

aagtgtagac actcatatta gctggaacaa caagccaaaa attgcttctt gatgtagagg 300

ctattataaa tcttcttcgt tgtctgaaat aatctcagcc cgggacacca attcaaaaac 360

aaatgaagaa gtcaagaca 379

<210> 42856

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D12

<400> 42856

atggcgcggg ttttcttttt ataggaacca aacaaacctc ccctttaag caaccaaata 60

tcttttctat agcgtaccaa aataaatt 88

<210> 42857

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-D3

<400> 42857

cggncctgaa ttcccgggtc gaccacgcc ttcgatttgg taccaatcct taaaacaggg 60

gactgttgtc ttacaccaga ttgcgtacaa aatttgcgaa tgaagtacgt aacaaagaaa 120



ggaaacgaga acatttgccg acttgacttt gtattcctag attgcacctt ctccaaatgc 180  
 ttcttcaagc taccgagcaa ggactcagca atccgacagg ttatatcttg catatggaag 240  
 catatgcatg caccatttgt cttccttgct tgtgatctgc ttgggcatga agatatacta 300  
 gttgaggtgt caaggacttt cggaacaaaa atttacgttg acccgaaatt ggattgtttt 360  
 aaagcactct cactgacagc cctgaaatc atcactgacg attcatcttc tcgctttcag 420  
 atggttgggt tccaccaatt acatgataga gcaagcaaag ag 462

<210> 42858  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-008-Q1-K1-D5  
  
 <400> 42858

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 ggtcaagaac gttttcgggg tattacaacc gcttactaca ggggtgcaat gggaattttg 120  
 cttgtctatg atgttactga tgagtcactt ttcaataata taagaaactg gataaggaac 180  
 attgagcaac atgcttccga caatgtgaat aaaatttttg taggcaacaa agctgacatg 240  
 gatgaaagca aacgcgctgt accgacttca aaagggcagg ctcttgctga cgagtatggc 300  
 atcaagtttt ttgaaacgag tgcgaagacc aacctgaatg tggagcaggt ttttttctcc 360  
 atagcaagag atatcaagca aaggctttct gaatctgatt caaagccaga ggatcgcacg 420  
 atcagtatta acagacctga tggcgggtga 449

<210> 42859  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-008-Q1-K1-E11  
  
 <400> 42859

tggaaggatg aagttgcaa attgaccctg ggcgatttcc ttctccagac aggaaaaatt 60  
 gtgaacatca aggagtttct gtttgcaagt ttactattt aaaagcaggt cgtgtcactt 120

gtgcggagtt aaggactgga ccgaggcagt attatcagtt tctggatatg gattgtttgtg 180  
ctagtttcga tgcaggtgtc aaacaacaat taggctgaag aggtgagcaa catttaagga 240  
ggtgctgatg cttgctgata acctatgaaa aggcgttgcg gtagctgact acttggtttg 300  
tggtcagata attctggacg tgaattttga tatgttggcc agattagctg ccaaataagg 360  
atttcgtatc tcttgattta tgggattcac attaaactga aaaaaaaaaa aaaaggggcg 420  
gcgctctaga ggatccaagc t 441

<210> 42860  
<211> 459  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-008-Q1-K1-E3

<400> 42860

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gaggactacc taatccactg ggggcagggg aaaaaagggt attaaaaagg ttattttgca 120  
ttttgaagcc tggtaactt gctaggccac caattgccta aaaaaccac ctaactacct 180  
ttctgggcac ttctgggtaa ctacaacccc caccaggggt acaaagaagt tgttaccag 240  
caggataagc acgaagaaat agctttcgtt gaagagatcg ctagaacagc gccaattaag 300  
tacttgcacc ggtacttagt gcagaagggg gctgtgcctc aggactacga ggacttcaag 360  
agaatgctga catccctatg gtttgatttg tatggaagag gtggcaactc tagctgctct 420  
tctgcctttg agcatgtgtn ttgtggtgag atcaaagga 459

<210> 42861  
<211> 216  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E8

<400> 42861

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gggccactgc cactgtacct tttttatcat gcaaacaaga gttccgactt ttacataaat 120  
acgtacatgt caattattga cttaatgaac agttgtttga ataataagc tagctcaatg 180

aaaactaata gtgtggataa cactagccac actcaa

216

<210> 42862

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-F2

<400> 42862

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caactnggct tctaacatgt ccaggaggct ttaagtttaa cctgatgaca tgtcataatt 120

tgggcgctaa actcatgtgc atgagatata ttcttttgtg cacaatcggt ttcttagcgg 180

gtgtctgatt ctgtatcacc tttgtgtcgt tgacttggtt tatgtggctc tgttattgcg 240

ggtgcagctc tggtataagg gctattaata aggtgggtgg tggttaaacta tgtcctgcat 300

atagtagaga ctgtgagctg atatgttttc agctaatacat taaggatcgg aaatcttcat 360

acaaattcca tctctactga ttattcactt gctgtagctt ttgtgaccc ttaagatggaa 420

cagataattg cttatttaac cacgttgggt tctaacgtg 459

<210> 42863

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-F3

<400> 42863

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tccacccgcc agccatggag atgaagaagg tcctctgcgc cgccctcgtc gccgccgcct 180

cggccaccgc cgtgctggcc tcggtcgctt ccgaggcgcc ctccgaggcg cccgccggcg 240

cggccggtgg tgccgctggc cctagcgcaa gcggcgccgc cgccgccgcc gtgcccgcgc 300

ccggggcgct cgtcgctctc ttctcgcct actacctcca ctgagcgacg acgcgcgng 360

cggcaacgtt gggatgcac gtgtttggt catccgatta attaatgtt ttttttattt 420

acgtg

425

<210> 42864

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F5

<400> 42864

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tgtgtccccg cgcgatggg gcgcgttcga ggctggcggc gacgacgggt gggctcgtgcc 120  
gccggccagc gacggcggca ggtacaacca gtgggcatcc aagaaccgct tcctcgtcgg 180  
cgacgtcgtc cacttcaagt acagcgagga ctccgtgctg gtggtgacgg aggccgacta 240  
cgacagctgc cgcgcgtcgc acccgtctt cttctccaac aacggagaca cggaggtgac 300  
gctggaccgc cggggccccg tctacttcat cagcggcgag accggccact gcgagcgcgg 360  
ccagcggatg gtcgtcaggg tcgccggcca gggcgcaccc ccgacggcgc cttccagccc 420  
ggcg 424

<210> 42865

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G3

<400> 42865

ccgggtcgac ccacgccttc caaaattaat ccacttgtgc cttggcgctg tgctagggac 60  
ctactagctc cgtctggatg cctgggggtg gtctactacg tagggtcgtc gaccttgtac 120  
gggtggcattg gcatgcatgc tgttgggatg ggatcatggg agttgggagc tgctgtggaa 180  
cacccttcca aagaagctga cgtgtggggg caatgccacc cgataccttg aacagcaacg 240  
actctttccc aggcgggcgt gtctccacaa atctgtcatc acatacacia cacgtacgag 300  
aagtaccctg gaaattgtat atacgacagt agttcgatca gtgtggattt tccgcaatga 360  
cggccacgcc ggaaactaca ttatggtaca caataaaacc ccgtgctttt cggcgggatt 420  
acattagaaa tcagatagaa atgtatagtt attcggtagc tttttggaaa ta 472

<210> 42866  
 <211> 485  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G4

<400> 42866

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 tttggcaccg gcaaggaagg gaccatgtcg gagaaaaaac aatctttgcc aagaggaaag 120  
 aagcagtacg agttcgacct ccaacgggag aaggaggcca aggagaagca ggccaagaag 180  
 ctgcaagcca agaaatccaa gatgaagata gatgggtgctg aaaagaaacg taaaggtggc 240  
 caatttaagg tcggcaagaa aaaggtgaag acgaaacttt cagccttagc aaaagccaaa 300  
 gccgcgcaag ccatggaggt cgacaagtga ctgcggagca caagcatcat caccttaagc 360  
 gtcgagccag agttggaact ctgaattctg tgcccacatg aatagctccc gtcgggtgca 420  
 gctgcagctg cagcttgttg aacctttctt tctaaaaaga atgtcattct tgctttttta 480  
 aggggt 485

<210> 42867  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G8

<400> 42867

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 gttgccttta agtactgtgg tgcggcattg ttacacatca cagttcagtt tgggtcaaatt 120  
 ttttttccac acaggaagta gggattgatt taatcattga tttaatccca cacgcgtgta 180  
 tctacggata cagtttgcac aacatgaacc acctttgtat gcgattggtc taaaaataaa 240  
 tataatgctg atctattgaa ttagaatgca gaaaaaaaaa aaaagggcgg gctctctaga 300  
 tgatccaagc ttactta 317

<210> 42868  
 <211> 435

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-008-Q1-K1-H12  
  
 <400> 42868  
  
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 aaggcaaagt caaaggacaa cgatgcaaaa gcgtccgggc ccggtgggtc cttcgacatc 180  
 accaagttgg gcgcctccgg caatggcaag acggatagca cgaaggctgt gcaagaggcg 240  
 tgggcatcag cgtgcggcgg caccgggaag cagacgatcc tcatcccaa gggcgacttt 300  
 ctcgtcggac cactcaactt cacaggccca tgcaagggcg acgtgaccat ccaggtgaat 360  
 ggcaatctgc tggcgaccac ggacctaaagc cagtacaagg atcatggtaa ttggatcgag 420  
 attctacgcg tggac 435

<210> 42869  
 <211> 215  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-009-Q1-K1-A3  
  
 <400> 42869  
  
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 aaaaaaaaaa aaaaaaaaaa aagaagaaaa aaaaaaaaaa acaaggggct gcctatcttg 120  
 gggattccta gcttgacttc cgcatacttg caacttctta gctcttttat gtggtcacct 180  
 aactccaatt gactgtccga tggtttacat cttgc 215

<210> 42870  
 <211> 292  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-009-Q1-K1-D2  
  
 <400> 42870  
  
 ccggtcctga attcccgggt cgaccactc gttcgtcgcg ctggatacgt ggttctctgt 60  
 ccaaaatatg attcgtctgg tctggcgtgc gtgagtcag ctcgtgtcgt gtgtgtctct 120

gtgtgaggtg tggcgggcg tgtgtatgta tggagtctgc cggcgggct gaggaggtgt 180  
gctcgtggtg gtggtggtac gtgcttcgac tctccactgt ttgtcgcggc gatcatgtac 240  
taccctgctg cgttttctgg ttatcaatga gatgatttat ttgattcttt tc 292

<210> 42871  
<211> 474  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D7

<400> 42871

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ctcctgtccg ctgtcatcgt ggcaccgttc gggggagcga ctcgtgtcga cgtcgttgag 120  
ggcaggcca tggcgctccg cgactcgccg gaggccgtcg caccatcacc cgggcctgac 180  
tccgcctcgt caccggactc ctgcgcggat ggcgcccca gcagcagctc ctccggactag 240  
atagctagcc gctcgacgca cgatctcgct ctccatctac acggcgatcg agttctagct 300  
ttgtcggcat gcaatgcaaa attccgattc ttccgggaata atcaagcacc aaaggaatgt 360  
gcttgcatca ctactacta gtacctgtt tttatatatg tttcctctcc tgacgctctc 420  
cgattttaat cttcatgtat gcaacatatg tgatgaatgg aaaaatcgat ttgt 474

<210> 42872  
<211> 176  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D9

<400> 42872

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atatgtgttg tcttctttca cgcataatg agatgcaccc ggcttgctcc ttaaattcgg 120  
gtgtgacagc gcagtcagcg caactctagt ttaggagaaa cacaagatg gagggtg 176

<210> 42873  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E10

<400> 42873

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ccacgcgtga agaagcagcc gcctgcgctc cccccgaatc accgcccgga gctccgcgac 120  
ttcggcggcg tcacgcagcc tcagcacggg agcgcttcag cgtcgtcgtc gtcgtcgttg 180  
cggccgttct acaacttcat gccgctgccg gttgggtccag ttcgctgtga gaggccccctg 240  
agcgagatca aggccgacgt ctccgacggc gtcgacctgg aactgaagct gtaaggagcg 300  
catataactg gaaccctcac tccctctggt ggatgttcct tctgcaacg gga 353

<210> 42874

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F2

<400> 42874

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ccttaatatata atttaagtgg cctgggttttt acaactttga ctctgaaaaa accttggtt 120  
cacaaatcta tatcggtttta aaacatatcc ctttttccaa atgtcgcatt atagcaaaga 180  
gccccacaca tatcgctttt caaaacattt gcacac 216

<210> 42875

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-G10

<400> 42875

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ttctgtgcct cctgttagcg acagggccgc agggggccat cagcgccgag gggatggtgt 180  
catttgacaa tttgatcagc tgcaaggtac tgggcaactg cgacaagaac ctgggccccg 240



aggcctcccg cccagggaaa cccgccaacg actacacccg cggctgcaac ccgatcaccg 300  
gctgtcgcgg ctgatcatat ctctctgggtc gatgtgcgcg caatgtcaat gtcgcacgcg 360  
cgtgcaagta ccaagcctca acgtgtgggtg ccgctgtgtgt gtatatatta cacacatgca 420  
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<210> 42876

<211> 558

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-G7

<400> 42876

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gctgagctgt ccactccccg aactcgtca agggccgccc tggctcgagt tcatctctca 180  
tgccttcac ttcgtacttc gtccggcacc agcgaatctg gctatggccc ttcattgtaag 240  
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atcatgcctc cttcaagggc cctgggtctac ttgggtggct ccatgctcct ggtgctccgt 480  
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<210> 42877

<211> 478

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H1

<400> 42877

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gtcacctgac aactctgatg ttcagtatca gtttatgctt gaacaacgtg ttcttcggcg 120  
gctttgtgtt cagaagatag tgggtgcctac accgatgaag gacaggctag acaaggatac 180

aaacttcacg atagcggagg atggatctct tcatgtcctt ccaaaaagcg tctaacagat 240  
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 catgagcaag cccatacaca cgtctgagtt cctctgtgct catattctca ttttaagggca 360  
 cctcgctcgt ttgtagtgtc tgtttggaaa tattaatctt tccttcactc attagttcta 420  
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<210> 42878  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-009-Q1-K1-H11

<400> 42878

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 cacatcctct ctcaggagtt tgggtgggac aaggacctgg ccaagaagat ttggtgtttt 180  
 ggacctgaga ccaactggccc gaacatgggt gtagatatgt gcaagggagt gcagtatctc 240  
 aatgaaatca aggattctgt tgtggctggg ttccagtggg catcaaagga ggggtgactg 300  
 gctgaagaga acatgcgtgg aatttgcttt gaagtctgtg atgtcgntct tcatgctgat 360  
 gctatccaca aggtggtgg tcaagtcatt cccac 395

<210> 42879  
 <211> 465  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H4

<400> 42879

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 gctggtacac tgggtcactcc aaggccactc aagtccagtt cctttgaaga taaggacaag 180  
 cgccttgctg catcaacttg gtcactctta gatggcgtgc ttctggatcc tgatgcttcc 240  
 tcatcagatg aaagccggct gcgcagatac tctagcgtg ccgacgttgg tccagatgcc 300

atggaacttc tatggtcctt gattcgattg ccagtaggca tcatctacgt gaatgaaaac 360  
 attatcctaa cacttactgc ttgcattatt gattggagcc tacagatata gcgtagtctt 420  
 caatctggat tgacagatca atcagtaacca tctatgatga cttct 465

<210> 42880  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-009-Q1-K1-H5  
 <400> 42880

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 tttcccaact actctttctt tcgcagacat tccagccttt tctttcacag gcactccagc 180  
 cacattgcta aggccaaggg tacttgactt tgggtccagac ctttcaacca atgcgccttg 240  
 gaaaacacag taagctatga aggagagtat gcgccgaatc tgccgcagca caagcaacaa 300  
 cgaattgata acagaagcca ccagtatatt gaagtttgca atcaggaaaa acgccgcgat 360  
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 c 421

<210> 42881  
 <211> 495  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-010-Q1-K1-B9  
 <400> 42881

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 ctctctctac tcgccgtcgt ggcgctgctg tccgccggcc tcctcccgca ggcgctgggt 180  
 aagggtaggg gaggcagggg acacggtggc gccgtcaacc cgcaggctgc cggcatctgc 240  
 tctcgacccc cgttcccgga ggtgtgcacg tccaccgtcg ggccggcagc gtccaagtac 300  
 ccggtcatcg acaacctggc cgtgctgaac atgcatgtgg acgcgttcgc caagcgcacc 360

gcgcaggcgc gcaagcacgt cgcgaggtcg gtccgcacca ttccgacgca gcagacgcag 420  
gcgctcacgt tctgcgacac catgtacatg aacacgcagg acaccatcgg ggcgagagcaa 480  
cgggccatca cgttc 495

<210> 42882  
<211> 338  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-010-Q1-K1-C10  
<400> 42882

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tccagatgca gaagcagcac aagctcatcg cgccgggcgc tgctgtgctc gacctcggct 180  
gcgcccccg cgcggtggtt caggtggctt gtcagaacct ggggtcccctc gagaaggggtg 240  
gcattgtcgt cggcgtcgat gttaagaagg tgaaagtgcc ctctgcgcac tgtgactcac 300  
gggtcaagac ggtctgtgca gatgtcatga cgctgatg 338

<210> 42883  
<211> 403  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-010-Q1-K1-C12  
<400> 42883

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ggtgccacaa agagcgggtct ggtttcgagg gggcctggac taaaacctt ttggtctttg 180  
acaactctta cttcaaggaa cttctgagtg gtgataagga gggccttctt cagctcccaa 240  
gtgacaaagc cctgctgagt gaccctgttt tccgacctct tgtcgagaaa tatgctgcgg 300  
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ttgctgatgc ttacatagac cctatcctgg agtgatacat tct 403

<210> 42884  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-D12  
  
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 gtcactggtc agtcacttac attttgatgt gccagaaata ttcaagtatc taaacaaggt 120  
 ggtcgtggtg gatgacgatg taagtgttca acgtgatctg actttcttgt ggaatattga 180  
 tatgggagac aaggtaaagt gcgctgtcga actttgaggt ctgaaactgg gtgagatgaa 240  
 aaatgtcttg ggtaaaacag catatgatcc aaagtcgtgt gcgtggatga cgggggtgaa 300  
 tttgattaat ctggattaat ggagggagca taatgtcaca gagaactatc tgcggctcat 360  
 gaaaaagttc gaagtcaagg atgagctgtg cctgctagca gcagcatttt cctctaagct 420  
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<210> 42885  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-D9  
  
 <400> 42885  
  
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 acgacgtcc cttcggttc ggcaaaccac atcaagtcgc gatggagatg aagaaggtcg 180  
 cctgcgccgt gctcgtcgac gccgcctacg tcaccgtggt cctcgccgac gaggccccgg 240  
 cgcccggtcc caccagcgcc ttctcggctg cgttcccggc cgtcggcgcc gtgctgagcg 300  
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<210> 42886  
 <211> 181  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-E8

<400> 42886

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tacgctgacg aataacaacg caactctcac gaataacaac gccaatcttt aaagttcatc 180  
g 181

<210> 42887

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E9

<400> 42887

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gtgtccattt caaccaacat ctgcttgcatt tctcaggagc tatagcccga cctcgtcttc 180  
cacttctgcc aacccttgac atgcctcatg gggtttgctca agcacctggc gcaccattgc 240  
tgccaggaat taggcccccg attttaccag ctccaggcta tactgatgct ccaccaacca 300  
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<210> 42888

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F1

<400> 42888

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cgtgtctgcg cgcgcacgca cgcattgaac gggagataga atatggtatc gttcaatgca 180  
gattgccatg ctatagctcc agagtttata tacctggtag caccatgaca cgatggcccc 240  
ttcgtatttt ctggcttgct cgtacttttc agttccatgg ttttacaaca ctttttactt 300  
ccagcagaaa atacataata tgcattgact cctctttttt tccgtatagt aatataaaca 360

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369

<210> 42889

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-G10

<400> 42889

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ctagcttgct ggattgaaga tccaaactca gaggccttca aactccacat accacgagtc 240  
tatgactact tgtggcttgc tgaagatggc atgaagatgc atggttataa tgggtggccaa 300  
ctttgggata cagatctcat aggtcaagcc attgtggcta ccaaccttac cgaagagttt 360  
gggtccaccc ttaacttagc acacaactat atcaagaaat cacaggttct tgacgactgn 420  
cctggtgatc tg 432

<210> 42890

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G11

<400> 42890

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ttccttgatg gctttttgac taacaaaaat gtctttgcta ttaattatac atctcaagtt 180  
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gtgatcggca agacatctcc tgttacttac caagtgtggt gccatcttaa aacatgcctt 300  
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atactaattg ct 372

<210> 42891  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-G9  
  
 <400> 42891  
  
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 gcatatgcat atgatctacg cctttgcaca ttatatgtga tgctgcgatt atgagcacta 180  
 caataatcac gacctcataa ttacatacga aatgatccat gcactcaagt ccaagcctga 240  
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<210> 42892  
 <211> 468  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-010-Q1-K1-H2  
  
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 caaggcaccg acctagtcac caaaggcacg cagtcctgca gcatatgcca atgcacctga 240  
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 ccgacgtctc tacaccgtct tcttccacgg acgaggagtt gagcccttcg ccgtcagcat 420  
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<210> 42893  
 <211> 507  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-010-Q1-K1-H4



<400> 42893

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ccggcgggctc cacacgggat gtggccacgc ctgacacctn cacctccatg gctgagtgc 180

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gcaggagttc gtgccgcgcg ctgccgcggt gcccctcccc cttcgcaaca gaagcggttg 300

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gagcattttt atgccttctt gtcaggggaa ctttttgag gtatcagatc ttgggtattt 420

tctggtgatt cagttgtgta ttcttgagc tgaaagactc ggaagaagta atatatcggc 480

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<210> 42894

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-H6

<400> 42894

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agcctaacga caacctgcgg aagccgatcc aggacgtcaa cggcaggacg aagaacttgg 120

acgacattgg agccggccac gtgaacccga agaaggccat ggaccctggc ctagcgtaca 180

acatgactga catgggctac gtgccgtacc tgtgcgggct caactacacg gacgacaagg 240

tgagcacgat catctaccta gagacggctg tgccgagcac gaagcaggcg atcattatca 300

ggacgacctt aactacacgt ccatcacctg catcctgaac ca 342

<210> 42895

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-H9

<400> 42895

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 tcatgtagga tgatatattg gacttttgat ctgtgaacag agctgcgtga tacaaaccgt 180  
 gaaatcagac tatatgaggc acctggctgc tcgagcctgc tacgtgatcc aatcaaactg 240  
 gtgcctgcga caatggcatg cgacgttcgt gcagctgcct cacctggcta atcatccgac 300  
 tgtccttaaa ctgtagcctt atgacctaat tagcatcgct gcagtgtgta ctctgatatc 360  
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<210> 42896  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-011-Q1-K1-A3  
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 cggcaagtgg ctaccgccca gggccacctg gtacggtcag cccaacagtg cctggactgc 240  
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 ggcgtgtggc aacgtcccca tcttcaagga cggcaagggt tcgggctcat gctatgaggt 360  
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<210> 42897  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-011-Q1-K1-A5  
 <400> 42897

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atattggatc ctattgcttg tgcattccac acacttttgt gtgggctacc tgcaagacct 240  
gaatgcacag gccagacatt ggatgggtca cagttacctg gttcaggctc cactgaggca 300  
aacaggatga gagaaagggg ccataaggca ctggagcaga gactggcaga gaagctggct 360  
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<210> 42898  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-011-Q1-K1-B1  
<400> 42898

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atggccgacg tcgtcatgac gctggg 446

<210> 42899  
<211> 175  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-011-Q1-K1-B3  
<400> 42899

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<210> 42900  
 <211> 262  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-011-Q1-K1-D11  
  
 <400> 42900  
  
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 caagggtcag ttccaagaaa gatgaatacc aaggtagtga gaagcatgcc cagaatgaat 240  
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<210> 42901  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-011-Q1-K1-E3  
  
 <400> 42901  
  
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 aatctgtttg ggagtggaga acggagtatg gggcgcgcca agatcgagat caagaggatc 180  
 gagaactcta ccaaccggca ggtgaccttc tccaagcgcc gggccggact ggtcaagaag 240  
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<210> 42902  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-011-Q1-K1-F4

<400> 42902

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taccaccacc accgcaggag cgagatggag atgaagagga tcctcttcgc cgtcctcgtc 180

gtcatcgccg cctcggccac cgcagtgtg gcctccaccg aggccgccgc cgcggggcgcc 240

ccaactgcct ccgagtcgtc cgccgaggct cccgctggcg ctggcgctgg cgctgcccgt 300

ggcgccgtcg cctcggggcc ctccgccagc agcggcgcg cctgcctcgc cgtcggcgccc 360

gccgcgtcc tcttctccct cctcgectac tacctccact aagcgtgtgc gtgcgtacgt 420

acgcgcgcat ggacgacgat 440

<210> 42903

<211> 493

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G4

<400> 42903

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gggaaaacac atactgatgt atttttacag gatccactaa ggggcggcag ggacaaactg 180

gttgaagatg ttttatctgt cattcatggt gatgatgcaa gtgcgcgtga gagggacgct 240

tcggcaccta ccctgagcg cctggtttat gaatggcaaa ttaaattggc ccgccaaatt 300

agtcccttct aaacaggctt gtacacagaa aggatttggt ccaagacttc aacaagcatg 360

tgttgcaacg tgataaacta cgtgggggtac atgatatttc ttgggatttt cactgggtca 420

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<210> 42904

<211> 520

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-G7

<400> 42904

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gatctcgccg gcacgaccaa cggcgctgtg catgctcgga tgaatagtaa ggctacacgt 420  
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<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-C1

<400> 42905

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tgcgggcccc cgaagggtgcc gcccgggccc aacatcacca ccaactacaa cggcaagtgg 180  
ctcaccgcca gggccacctg gtacggtcag cccaacggtg ccggcgctcc tgacaacggc 240  
ggtgcgtgcg ggatcaagaa cgtgaacctg ccaccctaca gcggcatgac ggggtgcggc 300  
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<210> 42906

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-D2

<400> 42906

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cactgttttg tgtgttcgat ggccacggcg ggaaaaacgc ggcagagttc gccgcggaga 180

acatgccc aa gtttatggcc gaggagttga cgaaggtaaa cggcggagag atcgaaggag 240

cggatgaagag gggttacctc aagacggacg aggagttcct caagagggac gagagcgggg 300

gcgcgtgctg cgtcacagac gtcctccaaa aggggtggact ggtcgtctcc aacgc 355

<210> 42907

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-E1

<400> 42907

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tcgattccgg cgacgacctt cgccgtcatc ttatccgtcc ttttctgtgc cgcggtggc 180

accgccgtcg acaacgacct ccccgactac gtcattccagg gccgcgtcta ctgcgacacc 240

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gagtgaagc acttcggcac cggcaagctc gagcgtcca tcgacggggg gaccgacgcg 360

aacggcacgt acacgatcga gc 382

<210> 42908

<211> 482

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-E10

<400> 42908

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cccgtcttc actgcennc cctcaccaaa taaggggtcc cgcgcctttt ctcgacactt 120

cacnnagggg ggaccaggnn aaatcagcgg cccatggccc ctcgattctc gggcgacgaa 180  
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 gtcgacaacc gaacctccct cgactaccgt catctcaggg gccgcgtcta ctggcgacac 300  
 tctgctncgc gccgggttct gtgaaccaat gtcactcgag taccatcgcg ggcgccaaag 360  
 gtgaaggctg gagtgcaaag cacttcggca ccggcaaagc tcgagcgctc catcgacggg 420  
 gtgaccgacg cgaacggcac gtacacgac gagctcaagg acagccacga ggaggacatc 480  
 tg 482

<210> 42909  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-E3

<400> 42909

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 ggcgatgac aagctgatga ccgacggcag tgccagcatc acacggttca actacgccgc 180  
 cgtcatagag gccgccttcg ggttcgcggc gctcaagatc agcccgttg acgtcagcac 240  
 aaagatcctg gagctcatgg ccgagtcctg gaactggctg atccagtggc acaagtccgg 300  
 ctactccgac cctggaaaca gcggcggtt cagcggcagc tcttcgtccc agacgtcggg 360  
 ggaagatgcg tcgcggatgg gcaacctggc agtcaacatg ttcatcaagc tcgcggaggc 420  
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<210> 42910  
 <211> 374  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 42910

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ggcgaagccc ccagcggtt cgacacgggc gcgccccct gcggcgactc agcgggtcatg 240  
gccccgggt gcacagcgca ccgcgggcgt tgctcctcgg tcagcgagcg caagcaggcc 300  
cccatcggt cagagcgga cccccggcct tagtctcggg ggtggcgccg cccccgcaag 360  
gcgcgagcgc tgac 374

<210> 42911  
<211> 107  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<210> 42912  
<211> 400  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-012-Q1-K1-F8

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ggcgaggagt tcgaggtgga agaggcgggtg gcgatggagt cgcagaccat ccgccacatg 180  
atcgaggatg actgcgccga caacggcatc cctcttcta acgttaactc caagatccta 240  
tccaaggtaa tcgagtactg caacaagcac gtacatgccg tcgacggcgc cgtcgtcgcc 300  
tcgaaggccg gttccgacga cgtgggtgcc gccttcgnca acagcaccgn cgtcttcggt 360  
gaggacctca agaactggga tgcggacttc gtcaaggtcg 400

<210> 42913

<211> 495  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-012-Q1-K1-G12  
  
 <400> 42913  
  
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 tagagccata tggcatctgc gaggtcgcca gaactggacg agtggcactg gtccgtgaat 300  
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<210> 42914  
 <211> 272  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-012-Q1-K1-G7  
  
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<210> 42915  
 <211> 181  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-012-Q1-K1-H3

<400> 42915

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<210> 42916

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H5

<400> 42916

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aacatccaga agttcgtgca gttccagctc acggtgaacg tcgttgccct catggtgaac 180

ttcgtctccg cgtctttcac agggagcgcc cctctgacca tcgtgcaact gcttgggggtg 240

aacctgatca tggacaccct gggcgccctg gcgctggcga cggagccccc caacgacgcg 300

atgatgcg 308

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<211> 430

<212> DNA

<213> Zea mays

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<400> 42917

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gctgaggtgc acctgaagca actagactct tctattttcca agctggaaat gaactatcat 120

gcagattcag aacctaggaa ttcaaagaca gaggttgctg aacacagggc acctgatgat 180

gctgacttga taaacaccct ccaatggcga gcctttggaa tatgaagttt gtgctgggat 240

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<210> 42918  
 <211> 231  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A11

<400> 42918

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 cgcgcgggct ttctaccgag aaagccgttg gtgcaggcag ccacatcggg aagcacaccc 180  
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<210> 42919  
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 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A4

<400> 42919

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 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A9

<400> 42920

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<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F5

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gtatgcacag cgaaaaggac aggagccaac aaggaagaat cggcggcagc cctcggtggc 180  
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<210> 42922

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G11

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<210> 42923  
<211> 415  
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ggacttgctg aagttctaga gaaaaatagc atgtatatga cacagggtgaa gagccccact 360  
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<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H7

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<210> 42925  
<211> 371  
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<223> Clone ID: LIB3075-014-Q1-K1-A8

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agggtgtccgg ggtcacgctg ctcaactcca agttcttcca catgaacatg taccggtgca 240

aggacatgct gatcaaggac gtgaccgtga cggcgcccg ggacagcccc aacacggatg 300

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acgactgcat c 371

<210> 42926

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B1

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agatccatca ttgaatatca cagctcgaat ccgtgggtcca aatgatcagt acataaatca 180

tatcatgaaa gaaacagggg ttactgttgt actaagagga aaagattcgg agaatcttgg 240

cagttgtcat agtgaagcct cacaacaacc tctacaccta tacctcaca gtatgcattt 300

aaagaacctt gaagctgcaa aagttttggc agagaacctc ctggatacag tagcagcaga 360

attcgggtgct tccagaattt cttcttcaaa agtatatggg gctgttccac cttctcagca 420

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<212> DNA

<213> Zea mays

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<210> 42928  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C4

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 cacaaggaac tacatgacct agagcctttg gggcccttca atgtctgtta gcggtggcat 360  
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<223> Clone ID: LIB3075-014-Q1-K1-D2

<400> 42929

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 tactggactt tattaagcag agtaaggggt attacagtcc t 281



<210> 42930  
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 <212> DNA  
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<223> unsure at all n locations  
 <223> Clone ID: LIB3075-014-Q1-K1-D3

<400> 42930

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<400> 42931

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cgatgatgcy tgagcttgcc ccatgcatg aaactgttac ctacaatcgt aatgtaatgt 420
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 <223> unsure at all n locations  
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 tgatggacag gcccagctg ctgacgagga tgacgatgat gatgttgacc tttttggcga 240  
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 gactgacatg gccaaactcg aggaagctgt taggagtgtc cagatggaag gactgctttg 420  
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 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E3

<400> 42934

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caaactggcc catacacctt ttcttgtcag aagcttggtc agatattagt gcggatttat 180  
ggtgaaaatt cagagctttt accttagta ttattatcat tgagtggcga gaaagggtac 240  
agaaataact caattagtag ttctgggtga accttcacct ttgacaactt atttcctgga 300  
agtttctatc tccgaccact tctaaaggaa tataaattca atccgtcagc agtagctatt 360  
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gccatggggt ctgtaacac 439

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<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E7

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ggcgctgggg cgctgggtgcc tggatgacct ggccgtggcc ttgcgcctag gggctctctg 180  
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<210> 42936

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E9

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ggaggagaaa 70

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<400> 42937

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gaccattggg ggaggtgatg atgctttcaa caccttcttc agtgagactg gcgctgggaa 180  
gcacgttccc cgtgctgttt ttgttgacct tgagccact gtcattgatg aggtgaggac 240  
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caacaacttc gctcgtggtc actacaccat tggcaaagag attg 344

<210> 42938  
<211> 361  
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<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F5

<400> 42938

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gcccggggac agccccaaca cggacggcat ccacatgggc gactcgtccg gggtcacat 180  
caccaacacc gtcattcgcg tcggcgacga ctgcatctcc atcggccccg ggacctccaa 240  
ggtgaacatc accggcgtga cctgcggccc cggccacggc atcagcatcg gcagcctagg 300  
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<210> 42939  
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<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F7

<400> 42939

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gccctcgcgc tagtggcggc caccgccccca caggtagcgg aggcaaagaa gaagagagcg 180

gcgagagcg gcgaggcggc ggaggcgaag aagatccagg acgacttctg ctcgacgctg 240

tgcgagggca agaaggggac ggacctggtc gtgtgcaagg agtctgcgc tctctcccag 300

cagtccaacc tgggtgctgta cggcaggatc cagtgcaagg gcaagtgcac cgagcagaag 360

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<210> 42940

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G6

<400> 42940

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ggcaagaaca tcacggccac ctatggcaag gactggtttag acgctaaagc aacatggtat 180

ggcaagccga ctggtgccgg tcccgcgcac aatggtggcg gctgcgggta caaggacgtg 240

aacaagcccc ctttcaatag catgggcgcg tgctgcaaca tccccatctt caaggatggt 300

ctgggttgtg ggtcctgctt cgagatcaag tgcgataagc ttgtggagtg ctccggcaag 360

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<210> 42941

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G7

<400> 42941

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 ctccaagaag cagagccgaa gttcaaagaa accattatct acttttcact ctacacccaa 180  
 gaagaaaatg ctggacaatg tgtttatctt taatgagaaa tgcacaccta aaacagtgga 240  
 tcagggtgaa acaaataaag cgactgagtc acgtggtagc aggtctcctg attctgccaa 300  
 aaaaagagta aacaggaaac agacatacct ttctccaact gaggatgaag ggattaaaag 360  
 ttctgaaaca agttttgcaa aaggatataa atctcacaaa tggccttcag atattgatgt 420  
 tcctgataaa tctcctgttg agcatatggg taggaaatca aatc 464

<210> 42942  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H5

<400> 42942

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 cggcgacgag cactaccag catcatgtcg gaaagaggtc gcctggcagg acgattgatt 180  
 gataaccgca gcagagggtta ccatgtagtc cctctagttg aggatcccag aggccatcct 240  
 gaagtcctcg tggatgggga tcggaggggc tactctgaca ttcgtggggg tcagcaacgt 300  
 cggggctacc ctgacacca tctgcttgag gaacctaggg gctaccctgg tgttcgtgtg 360  
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 <212> DNA  
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<223> Clone ID: LIB3075-015-Q1-K1-A1

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 ccaaattcagc atgcagagac ttaggcacta tacgttatac atcgtataac actatcaaaa 180  
 gtaactgtgt ccggggcccta atggtggcgc gttegggtaa gcagacatac tcagtgtctg 240  
 aggtgatgca acttgaccag gtgctaaacc caagatatct ga 282

<210> 42944  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C2

<400> 42944

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 gataaaacga gagaaggatg gcagtgtctc agggagctgt cctattcttg cttctcctac 180  
 tcgtcgcagc agaggtggga accatcgatg ccaaaatggg agtagccatg cccatgcatg 240  
 ccttgataat ggagaaagcg aaacagcacg agaaggagaa gaaggaggag aaaagcacgg 300  
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 <213> Zea mays

<223> unsure at all n locations  
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<400> 42945

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 ctgggtctct ttagttcaga ttttattat 149

<210> 42946  
 <211> 167  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D10

<400> 42946

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<210> 42947

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D12

<400> 42947

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gttgcggtatt catgcagaac tgggtgctgac actaatgaca tttttggtct tgctcttgga 180  
tacaagtcga ttatcatacc aattttcgtc attgctgtta ccatctatgt cactttctcc 240  
attgctgcga tgtacggcat tgcatttgcc gctcttggtg tgctgagcac aatcgcaact 300  
ggtcttgcta ttgatgctta tcatcccatc agtgacaatg ctggaggtat tgctcagatg 360  
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<210> 42948

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D6

<400> 42948

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ctacaacctg atggacaccg tcagccggca caagaaccaa atgtacgcga cttcattgac 180  
cgaaatcatg ctgaacttcg acaacgcggt catgtggatc ttgcattcca acatctggga 240  
accgta 246



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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E2

<400> 42949

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aattcacctg cgcaagtttt gggcgcttta gaaaagccag cgcggtgcccc tgggtgtggga 180  
aagttttaaa atgtggtaaa gttcacattt agagaggctg acacatctac gggagactct 240  
gatgatgatg gtgaggatga ataccacctg ttagaggctt taaaagtttg atcagctgat 300  
tatctgctga gggtt 315

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<212> DNA  
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<400> 42950

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F4

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 <213> Zea mays  
 <223> unsure at all n locations  
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 acatca 186

<210> 42953  
 <211> 194  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 aaaattaacc ctttgtgcga ttacttcatg tttacccatg gaacataaat ttcatgatac 180  
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<210> 42954  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-015-Q1-K1-G2  
  
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 gatgacatct aggtctcggc ctgggtacca tcaaaacctg actctgaggt tacatatatg 240  
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<210> 42955  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-015-Q1-K1-H10  
  
 <400> 42955  
  
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 aaatatTTTT atTTTTTTTT ttttttttaa aaatttttta tttttctttt ttttctctgg 180  
 aaaaaaaaaa aaataatTTT aaaaagcgct tcacaaaaca aaatgtaaaa aaaaaaaaaa 240  
 cttatttaag aaaacccttg aacaccacc attggtacat caaaaaaaaa aaaatttttt 300  
 acgaccccc cttaataaaa aaatttattt ttaaaaaata atccccccct ttttaaatat 360  
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<210> 42956  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-016-Q1-K1-D12  
  
 <400> 42956  
  
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cgtcggcgagg cttgcctggg ccaccagcaa cgagtcgctg gagaatgcct tcgcctccta 180  
 cggcgagatc ctcgactcca aggtcatcac cgaccgggag acggggaggt ctcgcggtt 240  
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<210> 42957  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-016-Q1-K1-E10

<400> 42957

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 caagatggag gactcagcca acccatctt catcgacatg aagtactgcc ccaacaagtt 360  
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<210> 42958  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-F11

<400> 42958

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 aggctcaatg cgcccaagca ttggatgctc gacaagcttg gcggagcttt tgctcccaag 180  
 ccatcttctg gacctcacia gtccaggag tgccttctc tgatctcat catcaggaac 240  
 aggctcaagt atgctctgaa ctaccgagag gtcatttcta tctgatgca acgcatgta 300  
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387

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-016-Q1-K1-H10  
  
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tccaataaat gatctgctgg tgaggcccaa tgcagatgat ccgtctttat ttaaaaaacc 240  
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<210> 42960  
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<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-016-Q1-K1-H12  
  
<400> 42960

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agtgtgacga aacgtttact ctttgcttgc accctccaaa cattgcgtat cattcgatca 180  
tgnagaagaa anagaacact tttgtcgtga caaanagaag nggcttcctg atgctgttgt 240  
ttggaaccct tgggacaaga aggcaaaagc aatgcaagat tttggggatg cagaatacaa 300  
gagcatgctg tgtgtggagc ctgcatctgt tgagaggcct attactctga aacctggtga 360  
agagtggaaa ggaaggcttg tgctctcagc tgttccctcg agttactgta gtggacagtt 420  
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 cagcggcaca tcttgccgct ctgccaagag gtcgactggc tcaaacaatca caaccacctc 180  
 ttgaaactaa tgtatggaca ctactacgac atcgtcttgc aagtcgacaa gtaccctgtac 240  
 agattacaac tgcgtgacct gctgatacaa tgacgtgaac aagatgacca tccataccat 300  
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<210> 42962  
 <211> 267  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tgctgctcat ggaggcggag ctggagaagg cagcaggcga aaccaggag ctggaggagg 180  
 agcggcgct catgacaaa cgcttgacc gcttcctgag gaggtggcc gaggagaaag 240  
 cggcgtggaa gtcccgggtc cgggaca 267

<210> 42963  
 <211> 475  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-017-Q1-K1-B11  
  
 <400> 42963

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 aggctggttg gcgtgcaggg tacctcggcg gcggagatgg agccggactt ctgcaccgtg 180  
 ggcgggcccc gctttgagtt cgctttcaac gaggccaact tctccgaccg ggaattgcgg 240  
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 ggtggcctcg ccgactgggc gcgccatcgg aagcggcgac gcgaggagct cttcaaggag 360  
 aaagaatcta caacctacat gtcagaccaa actaatttta atgaagtoga agcagaagag 420  
 tgtgatgcat atgaagaaaa tcaagaggaa cctgtagcat tgatggaagg atctc 475

<210> 42964  
 <211> 205  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-017-Q1-K1-B12  
  
 <400> 42964

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 acagacaatg cgatgagagc cttgttctct ctggtgctct tctgcatcgg gcattggtgag 120  
 aaggaagagt caaagggcat cgatgcgaaa acgtccgggc ctggtgggtc cttcgacatc 180  
 accaagatgg gcgcctccgg caatg 205

<210> 42965  
 <211> 217  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-017-Q1-K1-D5  
  
 <400> 42965

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 ttaaacgttg tccttgttct ggaatgttat ccaaccatc aggtgtcctt tttgtacttt 120  
 ggttagtgta tgcatattgt catgtgctgt acaaatatat tagcattact aactttatta 180  
 cgggtggggc ctagcccaaa cttgatacag ctaggat 217

<210> 42966  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-017-Q1-K1-F5  
  
 <400> 42966  
  
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 agtttagctgg gctaccggca atttgtttgc ttaatatattt tctgttcaa taagtactct 180  
 ggatggcata ttattgttta gtcattattga gctgcatatt attgtttagt catattgttt 240  
 ctgctgccga tgcccttgtg gggagaatga tcttgtaaca gacttgcta tccccgcaat 300  
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<210> 42967  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ctgtgcgcca ccgagagggc ggtcattcct ccccgccaa gtttttctat aaagtaacan 180  
 gaaaaaaaaa aaattttatt aaaaaattaa caaagaaaaa aaaggaaaag aactaaatgt 240  
 tgtaaagaa ataaaaccaa cttttacaaa agttcaaac ttttacttat ggggcggccg 300  
 ttttaaagaa tccaagtta cgtaccggg catgcaacgt catacctttt t 351

<210> 42968  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<400> 42968

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atcagcggcc atggcctcga ttccggcgac gaccttcgcc gtcatttat cgcctcctt 180

ctgtgccgcg gctggcaccg ccgtcgacaa cgacctccc gactacgtca tccagggccg 240

cgtctactgc gacacctgcc ggcgcgggtt cgtgaccaat gtcaccgagt acatcgcggg 300

cgccaagggtg aggcctggagt gcaagcactt cggcaccggc aagctcgagc gctccatcga 360

cggggtgacc gacgcgaacg gcacgtacac gatcgagctc aaggacagcc acgaggagga 420

catctgcgag gtggtcttgg tggagagccc gc 452

<210> 42969

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-A8

<400> 42969

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ttccagctcg ggatggcgcc cgtgtacatg gccttcctcc gtttcattggg ggacgagAAC 180

gaggccaaga actacagcta cagcctcgag gtcggcgcca acgggaggaa gatggtgtgg 240

gagggcaccC caaggagcgt ccgcgacagc caccgcaagg tgagggacag ccacgacggc 300

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<210> 42970

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B8

<400> 42970

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

89

<210> 42971  
<211> 465  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C9

<400> 42971

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tctatcagat acgatgagaa ttatctactt gtttgtactg gacgcttgcc cacaagagct 180  
cgagattacc gatgagttaa aagccagtgt ctgcaagctg ctaaaggacg ccataaatct 240  
cagcagttaa ctgctgagca ttacggagca taagtttgct agattacttg tccttgtagt 300  
tctaatagcg tgctgtcagc atttatctgg acttatggag gaaattgccg atgcccattg 360  
ttgacgtcgc gctcgcaatc gctccctgtg aaggttggag tggatgaacc cagcgacttc 420  
cttctgatcc gtgttttctt ttgtgcaact aatatgaaga tgaag 465

<210> 42972  
<211> 264  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-D3

<400> 42972

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caccgtgcac agcaccacac agccaggtcc ccatggcggc ggcggtggcg gttgcgtctg 180  
cgacgacggc ggaagacgaa gcgcgcctgc tgcgcctgga ggagcangcg gagcacggcg 240  
gcggcngcgc ctgggaatac ctct 264

<210> 42973  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E3

<400> 42973

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ttcattggag aacgtttctga caaccgagtc taatggatat gatattaatc agaggaaaaa 180  
tcgttattat gagaggagtc ctttcgatga cagtcatatc tgcagaggag ttgccaccta 240  
tggacattga cggcaaggct gaccattttg tggtcctgta cttaaagaac ggcgaaacca 300  
gccagaagac aatggctgag acagacacgc taaatccaat atggaaccag acatttgatt 360  
tcatggcaga agatgcactg catgatttgc tcatggtgga agtatcggac catgatacat 420  
ttggaaagga ttacat 436

<210> 42974

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E7

<400> 42974

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g 61

<210> 42975

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E9

<400> 42975

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atagagacca acctgtggtg ctttcgcat ctaagggata gccagaacc cgcaaattct 120  
gtagcattct tccagctttg aggcaggtag ttcttagtgg aggatcatgt gaccagctat 180  
ggattcagta gtacaatgaa gatggccaat ggatgaaaat tgtttcgcga gaaa 234

<210> 42976  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F1

<400> 42976

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ttcttggtga gcggcgcgatg gtgcgggtcct cccaaagtcc cccagggcaa gaacatcacg 180  
gccacctatg gcaaggactg gctggacgct aaagcgacat ggtatggcaa gccgacgggt 240  
gccgggtcccg atgacaacgg tggcgggtgc ggggtacaagg acgtgaacaa gcccccttc 300  
aatagcatgg gcgcatgcgg caacatcccc atcttcaagg atgggtctggg ttgtgggtcc 360  
tgcttcgaga tcaagtgcga taagcctgtg gagtgcctcg gcaagccccg tgtgggtgcac 420  
ataacggaca tgaac 435

<210> 42977  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G3

<400> 42977

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cggcgcgatg tgccgtcctc ccaaagtccc ccagggcaag aacatcacgg ccacctatgg 180  
caaggactgg ctggacgcta aagcgacatg gtatggcaag ccgacgggtg ccggtcccga 240  
cgataacggt ggcggctgct ggtacaagga cgtgaacaag ccccccttca atagcatggg 300  
cgcatgcggc aacatcccca tcttcaaaga tgggtctgggt tgtgggtcct gcttcgagat 360  
caagtgcgat aagcctgtgg agtgcctccg caagcccggtg gtgggtgcaca 410

<210> 42978  
<211> 234  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-018-Q1-K1-H11

<400> 42978

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agaaccacct atctgggaat cgntgcatct ttcttgaat cgtcctgggtg tacgggtgaac 120  
cgaacaaccc tgaaaaagat catgtctaca aaaaaattga ttatactcgg agtttgaata 180  
tccatgatag cagcaaatct attaaggggtg tacctcttcc tagaatttcg tctg 234

<210> 42979  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H3

<400> 42979

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gagacaaacg ggcgggttac ccgagagaga gaaagaggag ctcatgccct atccgctgat 120  
taccgcccag gggagttccc tcctagagag agaaccaagg tggtggccgc cttcgtcgtg 180  
caccttcggc gtttcccga ctcgtacagt ccgtgtgccg agcccaacat ggagcgtga 240  
acatgctcgt tgcgtcatcg tgcgactgga actctactcg ttgtcgaaga caatccctga 300  
atttgtcatg gggatccagc ttaaaaacct ttccactccc ccaggacatt acctgcgtt 359

<210> 42980  
<211> 370  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-018-Q1-K1-H5

<400> 42980

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ttccgtcgtga gagagagaac caggggtgtg gccgccgtcg tcgtgcacct gcggcgttcc 180  
ccggactcgt acgggtccgtg tgcggtgccc gccatggagc gctgagcatg ctcgttgcgt 240

catcgtgcga ctggaactcg actcgttgcc gaggacaatc cgtcaattcg tcgtggggat 300  
 cgagcttaga agcctcgccg cgccccgagg acattnacct ggttctctct gtgaaagggt 360  
 ggccgatcga 370

<210> 42981  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-019-Q1-K1-A10  
 <400> 42981

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 ttccccggac acctagaggg tcaggagggg gatgctgtac gcgagctcca aggaccgggt 120  
 caagagggag ctggagggca tccagctgga gctgcatgcc accgacccca gcgagatgag 180  
 catggacatt gtcagggcgc gagctctctg aagaggaaga cgcgcatgcg ctgcgcgat 240  
 cggcatgcat gccccggaac gacagaagct gcttgtcttg ca 282

<210> 42982  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-019-Q1-K1-A11  
 <400> 42982

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 acatcgcta ccacgtcatc aagctgggca tccgaccgta cattccgagg agctgacctt 120  
 ggccgatggc ggacatcatg acgcggagct gggacgggaa cccatacaac cggccggaga 180  
 tgtccaacgt ggtggcgctg ctggagaaga tcgacaccgg cagcttcaag ggtggcatga 240  
 cgcccgtcga cgacgtcttg cacgggtgca cctgcttcgg cttcaaccgc atcgtcacct 300  
 aggctagctc tctagctcgt cagctcagac atcagttaaa ttaataataa gctacagcta 360  
 agtatgcatg gccggccatg ggcattgatc gatc 394

<210> 42983  
 <211> 346

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-019-Q1-K1-A12  
  
 <400> 42983  
  
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 ggacctgcaa aagaagaacc tctaacatac ttctcatcat tagggtagca gtgtccagat 180  
 catatgaacc ctgccgagtt cttggctgat ctcatctcca ttgattatgg ctcaactgaa 240  
 agtgtacagt catcacagaa aaggatcgag gatctcattg aggcgttttc taacaaatct 300  
 gtggtcactg aaggtaacaa tctaattgca attgcagacg atcctg 346

<210> 42984  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-019-Q1-K1-B8  
  
 <400> 42984  
  
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 tttcatgata ttcaaccacc gtggaagagt gctgccgtca gactcagacc tgaaactccg 180  
 tacatagaca tgtcgtccca gaatccagat cttttttctt tattttccct gctgtaacct 240  
 gtagggatga aaacggtcgg aaacggtatt tattcggtaa tcagtttttt agtcgttttt 300  
 ctttgattgc gaataaatag gatataata ctacaataca aatttgtatt cttgttttta 360  
 acatccagct tgtaaagatt cataaaagggt aaaccttaaa ttc 403

<210> 42985  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-019-Q1-K1-C7  
  
 <400> 42985  
  
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 gccgacgttt gggacaggct cggcgagggt gctagacttc gacgcacacc accggttcac 180  
 catctacatc accgacagcg atggggaact gcagcacata cggcggtgct ctatcaacat 240  
 cagtgagtac acgccgctg aggacctat gctatggcgc cggttctacc gcaacatgct 300  
 aatgcataag gagcaccact ggtctggcat ggactagcaa ttccggtgcc tcattacagc 360  
 accttctggg gaca 374

<210> 42986  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D3

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 ggggttaatca cggtgatacc ttttggtagt aagatcgcaa ttactggaat tcaatatgtc 180  
 gccagcttca caggggtgggc attaacacgg atctgagtag tagattatag agtgatatgg 240  
 atgctgcggc aaggcatttc tcccgtgata tactccgcac catccccaaa gtcctttatt 300  
 ggtccacgtg tttttacaat gggtagtag atagatatct ttctgttgaa agaaaataga 360  
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<210> 42987  
 <211> 256  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D5

<400> 42987  
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 taatgatata ctggcaagtg gtacaacggg tgagtgaatg ggtaaaccat gtggtagatt 180  
 aaactgtatc gcctggcatt acatatgact ttcgctagat aggggtggtaa ttaagaggga 240



tgттааgatt gaagtt

256

<210> 42988  
<211> 70  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F4

<400> 42988

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agaaaaaagg 70

<210> 42989  
<211> 278  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-019-Q1-K1-F5

<400> 42989

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tnnttactgt ctggacacgt tcacaggtga tcgaacgaag gcttgatcga ttgcagtggga 180

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gcatttctgg cacttggtcac aggtgatcgt ataaagaa 278

<210> 42990  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F7

<400> 42990

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gcagcagtag cttagacaaa ttagatatgc cttttaagat tctagttgat atgcatgcat 180

tatttagttc acatcgaatg cagcagtggtg ttaactatgt agttgcatac ctatcatatc 240  
 taagtatatatt agacgtcttt ctaataatta tttaggatct gtcatcaata aaaatggtgc 300  
 aacaattaat aataaaatta taaagggctg ccgctctaaa ggatccaagc tta 353

<210> 42991  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G10

<400> 42991

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 acgcaagggt ggtcagccag tggaaaatgg tggactggtc gaatacttct ttggcaagga 180  
 tgggaatgaa catttacact atgataagtt ctctagatct ttgaagaaat tgcttgatga 240  
 gatggcccg tagaagttaa gccctacaa ggggaaatat tccacacca 289

<210> 42992  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G4

<400> 42992

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 cctcctttca cctactgtgg ggcagggccg ggaggggcgt gogaacgtgg cgcgcatggg 120  
 gctcgccgag gacgggtcgg cggacaccgc ccacctcagt aataatgaaa atgggagggt 180  
 catttatgga gttgcgagtt ctgctggtaa aagagcatcg atggaggact tctatgaggc 240  
 aagaatagac gacgtttatg gagagaaaat tggaatgttc ggcgtatatg atcgtgatgg 300  
 aggattgcga gcagctgagt catgtgaagc agcagctttt caggaagtta atcaaacacg 360  
 ccaaagaaga tcaatgatgc caaagctggg atag 394

<210> 42993  
 <211> 279  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-019-Q1-K1-G6

<400> 42993

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aaatggctta tccagaggag gtccattatg gatggaaata cacgttgatg tagaactttt 120

tcaaaaaaag aaaaataaaa taaaaaataa aaataaaaaa ataaaaataa aaactaaaac 180

aaaataaaaa aataaaaaaa taaaaaaaaa aaacaaaaaa aataaaaaaa aaataaaaaa 240

aaataaaaaa aaataaaaaa agaaaaagaa aagaggggg 279

<210> 42994

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G7

<400> 42994

gtcgaccac gcgtacgcg acgcgtaggc ggacacgggg gcggttcggg ttgtctgctt 60

ttacacctac tgctggtgcc agggccggga aggcgtagcg gaagtggcac gcatggggct 120

cggcggagac ggatcggcgg acacacgcca gctcagtaat aatgaaaatg tgcggttcat 180

ttatggagtt gccagttctc ctggtaaaag agcatcgatg gaggacttct atgacgcaag 240

aatagacgac gtttatggag agaaaattgg aatgttcggt gaatatgatg gtcattggaag 300

agtccgagca gctgagtatg ttaagcagga tcttttcagc aatttaatga aacacccaaa 360

gttcatcact g 371

<210> 42995

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G8

<400> 42995

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ttttgagatg gcaatgctat ggtcacaggc gcggacttac cttatcagga tcaggagtct 120

gtgcaattct accctacaga catccatggt tctgaaatcc tgagcactga acgttctggt 180  
 ggtgaaagtg gtatcctcag aaatagcgaa tgtgaacaga acacggaacg atcctgcttt 240  
 t 241

<210> 42996  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A2

<400> 42996

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 gaatgtatgg aaatgtgcat gtgggtccaac tgcattttcc tgttcctttt ctgtggcgtc 120  
 ttttttggca gaacgcgaaa tgcggcgcg cgtagcgccac cgattgtaga gttgctattc 180  
 ctactgccgg agtactccat gtgtgttgga tatcttggtg gcatattaaa taaatgcttg 240  
 gacaaaataa aatgattttt tgcccattaa aaaaaaaaaat aatatt 286

<210> 42997  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C4

<400> 42997

gaccacgcg tgcgattctt ggtagatcgt catccattgt catcatcttc tggatcggtc 60  
 agcaaaacat gggagtggtc tctattatca ttatcaagca gtcgcccag cctcttcct 120  
 gaaagaatgt tgtacatatt atcatttgaa ctctgtccag tatctacgaa gaagttgggt 180  
 gctgtttaat tcaccaa atg taacgtaaag ggtaatggtc actgtttaca ctctattaca 240  
 gacggttaca aacttgaata gtccgctata aaaactcatt atcgtatctg attacggtg 300  
 tactaaaaca aacataatgt atcgatatca cttaccatc accctac 347

<210> 42998  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D9

<400> 42998

gccaaataat taacttttagt gctgacaata cttaaagccg acctatgcta gctataactag 60  
attgggttgg atcccaagca atgcattaca catgcatgca ttggaccgtg atatctattt 120  
gctaccacta ccctattacg acagtgatgc tggcgccaac aatgatggtg tcatectcct 180  
tctccatctt cttcatctcc atatatagct agagtgaagac ttcgctgttg tttaaaagag 240  
aagagttaag aaatggattg acacgttata taa 273

<210> 42999

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E4

<400> 42999

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ttcggcgctc ggctectcct agccgccgtc gccatggcgc cgttcgcggg cgcggcgcgc 120  
atcgacgtcg tcgagggcag gtccatggcg tccgcggacg caccggaggc cgccgccgac 180  
gctcccgtc ctgctcctgg ccccgactcc tctcgaacc cgtcgccggc accctccagc 240  
agcagctctt ccgactagcc gcccggcaga gatctctacg gcgtccgac agtctttggc 300  
gccacctata acctatcgga tcttgcaaag ctatatatga ttctatggta taatgtgtgg 360  
gtgcggaaca cgcgcggaaa taatggtgct gcgtgattgg ttttctctct ctttttttgg 420  
ttaataatgg aaaacaggca tacggcgatg ttttaacatg 460

<210> 43000

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-020-Q1-K1-E6

<400> 43000

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tccgagcgaa caagccaacc gaccccgctc ccaaggcaat ccgcccgcga cgtaccacca 120  
ccaccgcagg agcgagatgg agatgaagag gatcctcttc gccgtcctcg tcgtcatcgc 180  
cgcttcggcc accgcagtgc tggcctccac cgaggccgcc gccgcgggcg ccccaactgc 240  
ctccgagtcg tccgccgagg ctcccgtctg cgctggcgct ggcgctgccg ctggcgccgc 300  
cgcttcgggg cctccgcca gcagcgggcg gcccgacctc gccgacgcgc ccgcgcgcgt 360  
cctcttctcc ctccctgcct actacctnca ctaagcgtgt gcgtgcgtac gtacgcgcgc 420  
atggacgacg atggatc 437

<210> 43001  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E8

<400> 43001  
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ctttggaatt cggcatacat gattagaatt gcctcctaaa cccaaacaaa aggattacat 120  
atactagaat tcagaagtct cagtagtata tatgggttagc ggtgcatgct ctctcatgca 180  
atatatataa acttaattag cttgctgctg caggtccata gccacccgcg ccgatgaat 240  
cgaagggaat tcaaagtcta gtagaattgg acgttgggaag tgtagacggc atcgggtctc 300  
cagttcggcg ggatgacgtc tttggcgatg accttcttgc cggactcgct ggtgaggcgg 360  
atggagaagg ggcccttgag cgccttggca gtg 393

<210> 43002  
<211> 492  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G4

<400> 43002  
ggcccgaat tcccgggtcg accgacgcgt ccgcggaacgc gtggggcaaa gaaaaacaat 60  
gttaatactt ctgcactgac acaatctgaa atgcgggata tcattcttgg cgctgaaatt 120  
gctccaccat cacagcagag gcaacagatt gctgaaattg agaaacagtc aagagagact 180

actcagttaa ctgctgtaac cacaaggacg acgaatgtgc acggagatga actcattatc 240  
acaaccacaa gtccatatga gcaacaagca ttcgcatcga agactgattg gcggtgacaga 300  
gccatctctg ccacaaactt gtatctacgt gtaaatacaca tttatgtcaa ttctgatgat 360  
ataaaggaaa ctggctacac ttacattatg ccaaagaaca tattgaagaa attcatatgc 420  
atagcaaatic tgcgtacaca aatcgctgga ttcttatatg ggctgagtc cacaagacaat 480  
cctcaagtca aa 492

<210> 43003  
<211> 194  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G6

<400> 43003  
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tcttaccatc gttttttact atcaggttca ggggttctac catacacatt tcataaatca 120  
aaccagtggg tactttcttca tcaatttaac acataggttt cccacactca cccgttaatt 180  
aatgcttata cccc 194

<210> 43004  
<211> 272  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G7

<400> 43004  
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atatatttta ctctatcacc agaaatcatg cactcataca tattactttc ctaaatgaac 180  
tctatctctt acaacaacat attttcactc ccattcctaa ctctcctcac tatatcaaca 240  
tgacaattcg aagattctct tacacattta tc 272

<210> 43005  
<211> 448  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H2

<400> 43005

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aactcagttt tgagaatgga gtctccctgt aacaccgggg acagtaaatac attatccaga 120

gtggaccctc cacaagtgga gttgacttcc tgcagtgatc tggagaaggt gaaagaaact 180

atggatacca atggctgtaa ctgagttttg agaatggagt ctccctgtaa caccaatgac 240

agtaaatac tatccagagt ggaccctcca caagtggagt tgacttcctg cagtgatctg 300

gagaaggcca ctgaaaatat taagatggac gaagttgatg agaatgcgtt gagtctgaca 360

gaagatgtaa gcacattagt acatgcacca ctaagcaatg ataatgtaaa taaaaatatg 420

ccaagccag tgagaaattt tgatcgag 448

<210> 43006

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H3

<400> 43006

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ctgtcacacg tgatacctct ggggagcaac ttggcggggg tgcaaagatg accctttacc 120

tcaaggatga tcagttagag tatcttgagg agcgccggct gaaggatctg atcaagaagc 180

actcagagtt catcagctac ccaatctctc tctggatcga gaagaccact gagaaggaaa 240

tatctgatga tgaggacgag gaagataaga aggacgagga gggcaagggt gaggatgttg 300

atgagaagga agaaaaggaa aagaagaaga agaagatcaa ggaggtttct catgagtggc 360

aattggttaa caagcagaag cctatctgga tgagaaagcc tgatgagatt accaaagaag 420

agtatgctgc 430

<210> 43007

<211> 444

<212> DNA

<213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3075-020-Q1-K1-H4

<400> 43007

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atccacaagg ccctcaagta gtagtagtag gtgggttacg ctagttagca cgaactggat 120  
agatcatgcg agggcggttga cgacgacggg gcttctgaca tagtgggtcc cgtctgtcca 180  
gacgagcctc ccaaagacgt agcccatccc gagcttgtcc tgctgcgacg tcaccgtcac 240  
cttgaactcc ttttcctcac cgaccttgct gaactcaagc accctcgggt tcacctccat 300  
ggtgatccca accggcgcgcg gccaggacgc gccacgcgt tcgcacctta ccacgcagcg 360  
ttaccggcgg tactactata tctacatacg accgtgggac aacgtcgacc ggagctcgat 420  
cggcgagtt gccgcatggg cgtg 444

<210> 43008  
<211> 310  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B10

<400> 43008

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tcaattacca attgaggggc tctgtattgc tcaatggagt gctgtttcta attttacctt 120  
aaagtatgct ttctctatca ttcatttgca tatatatggt gtcatatatt tgtttcacac 180  
tcatattatt ctgatatcta gttactatta tctatgcaac tgacttttta atcacatgat 240  
tatgtattac tatcttcttg tgttttaaca cactttatat ctgatacaca ctttaaattt 300  
gattttctaa 310

<210> 43009  
<211> 175  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C4

<400> 43009

agcggctctt gtccgcgcca caagatacca attggtgcgc tgggaatatt cagttacgag 60

gacccgctct agctcatagg gtttttcggg ggggttgat ccatcatttg gctgtagcgc 120  
gaatcgcatg gacaacagac tccaatttct aagcaaatat cttttctctg catct 175

<210> 43010  
<211> 454  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-021-Q1-K1-C7

<400> 43010

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agaagcgaga ggggagagag agggccaaac aaagatatat cgagaagagg aagaatagaa 120  
ggttctgcaa gcagatcatg tatgcttctc gtaaggccag agcagacacg agatggcgag 180  
tgaaaggccg ctttgccaag caggcttccg ctagcttcta gtgatctccc tgatctgctt 240  
tcacagtcac ttttgtgttg tcctctcgct cgcactttgc tcaatccctc ttcggcttca 300  
acaacaaatt tctcttgggt aatttatttt ccataattta catatatattt ccttgcttgt 360  
cagatgtaat atttntcttt cttttctttc aagaactaaa tgcaattcaa tacgtatgtg 420  
gatcggacta tatatcatcg ataaacatga gtta 454

<210> 43011  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D4

<400> 43011

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ggactgaaaa tgcacgtggc ttgtggcaac cgttcaccgt ccttcttggg gatgctccta 120  
gtgttgacgt caagaagaat gtgattgttg ccattacctc tgataaggga ctctgtggtg 180  
gtattaattc aacatcagtg aaagttagca gggcccttca caaattgaca tctgggtccag 240  
aaaaagaaac caagtatgtt atattaggag aaaagggcaa agttcagctg ttgcgtgact 300  
caaaggacag cattgaaatg actgcaactg aactgcagaa gaaccctatc aactacacac 360

aggttgccgt gctcgcggat gacatattga aaaatgtgga atatgatgct ctgaggggta 420  
 ttttcaacaa gttccaatct gtcatatcgt taa 453

<210> 43012  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E1

<400> 43012

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 cgtcgtcgtt gactttctaa agggatttga tagtgtaaat ttgcctgttt gggccgataa 120  
 acaaaccatg cgctcgtatt gcacggcacg gctggtacag tagttataca tgacgagtct 180  
 aaaaccgtgc tgcaactgcac gtgtcgatac ggttatcgtg gccgtgtaag gccttgttcg 240  
 tttgtgccgg attggtgggt ctgaacgatt cctaaccgga ttgcttctct aatttataca 300  
 aactttgatt agctgg 316

<210> 43013  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E5

<400> 43013

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 aaggctaacc gtgagaagat gaccagatc atgttcgaga ctttcaacac ccccgctatg 180  
 tacgtcgcca tccagggcgt cctgtctctg tatgccagtg gtcgtaccac aggtatcgtg 240  
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 cacgccatcc ttcgtctcga cctggctggc cgcgacctca ccgactacct catgaagatc 360  
 ctgactgaac gcggctactc cttcaccacc actgctgagc gggaaattgt cagggacatg 420  
 aaggagaagc tcgcctacat tgccctggac ta 452

<210> 43014

<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F8

<400> 43014

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ggtgagaagg aagagtcaaa gggcatcgat gctaaagcgt tctttcctgg tgggtccttc 180  
gacatcacca agttgggtctc ctccgtcaat gtcatgacat acatcacgaa tgctgttcag 240  
gaggcatggt catcagcatt cgtcgtcact gttaagcaga caatcctcat acccaagggt 300  
gacttccttg tctgacaact caacttcaca gtcccttgca agggctactt gaccatccag 360  
gtttatgtca atctgctggc taccactgac ctaatccagt acatggacca tggttaattgg 420  
atctagattc tacttgtgga ttacctggtc atcaccttc 459

<210> 43015  
<211> 477  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H4

<400> 43015

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caattaactc acgatcaagc gcaacgtcca catcttaaga ccttcccaag cacacccttg 120  
atacttctcg gaccacatag caataccaat tatctaccaa catcatcaac ctacggcatt 180  
ataccatcat ctacacctta tacacgtcac tctctgcaca tatagcacgc aatcttgatc 240  
atattgctat cattgtccaa acaagccacc gtcaacaaga ccatctcgct atccatgctc 300  
acgatatccc tcaactatact ggatatgtaa tcaatactaa tactaaccat gaacatcatg 360  
accccgcttt acacattctt gacatgaaat accatctcat tctccatgac actcactatc 420  
ctgtcaaagc tggctcttgaa gcttatcata catctcacag agaccatcac aatctac 477

<210> 43016  
<211> 246  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C3

<400> 43016

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cggtcaggta gaaaccagac acaacggact tcacaaggta atacatgagt tcaacagggc 120

acaatgggcc tcaaaagtcc attcatactt gcgacttgac tggttattta ggtgataacg 180

atttggggtc cggcacattc accagtttgg ccagctttta gccttgcttc tagcccatgg 240

catact 246

<210> 43017

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C5

<400> 43017

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caaacattca aatgttcaga tattcaaatt cttcgaaaat gttcagactt tagacaaaaa 120

gtaactctaa tatagcagct tcacacacgc acaggggaca actccgaaac tgagtgggca 180

gaagacttaa cacggtcgaa aagctaaagc ct 212

<210> 43018

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D3

<400> 43018

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gtttttttgcc tcaaaacggg atcaaggtaa gcaaagtaca aaactatcca gcagcacatg 120

aggctcgaaa agaacaagca tgaaaatttg agcaaaccgt atggaaacac ctctctcctc 180

ttcatacaac actagcacct agaaggttct gggacacc 218

<210> 43019

<211> 146  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-022-Q1-K1-D5  
  
 <400> 43019  
  
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 gttcactttt catagcgtac gcaaaaagtc gcaaccctgc atgtgttttg gcttaaaacg 120  
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<210> 43020  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-022-Q1-K1-F2  
  
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 gaggtagact gaacgcagct tgctcgatcg gccgtactcg actggtcgca agaagttctc 120  
 ggagggtagc aagggccagt ctagcagctc gatcgtgcgc acctcggacg tcggcggcac 180  
 gactgactgg ggctgcacc aatggctacg aatcgttcaa gcatttgtct cgcacgatcg 240  
 acacccttga gtggtcacg cgcgcgcacc cggccgtggc acctcgacat gcctgtgtcc 300  
 tcgtaatcat ccagagcgct tggccgtcaa tctcctcgc caaggttca 349

<210> 43021  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-022-Q1-K1-H10  
  
 <400> 43021  
  
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 ttgggcctaa gaataaagcg gttttcatta aagaacatta atcacctgtt gtgcttgtcg 120  
 catatgggaa cttaacatcc atcgctcaa attttggaa agaattcacc agattacatg 180  
 ttcgtttctca agggtttaca tgagttttta agaccaattt tcttgtttat gtcgttggca 240

ccaacaattt gggtttttttt caccagagcg ttcccaattt tttttttttt ttacacccaa 300  
acgcttcaat ttttattttg tgatgggaac atttt 335

<210> 43022  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H9

<400> 43022

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tcttgatctt gcacccgcgt gtccatgcct tctacctgcc cggcaccttc atgcacacgt 120  
gactcccctg gagaggatgat ctcgccaag gtcaactcgc tcacctctat cgagaccgag 180  
ctgcccttca gctactacag cctgtcatac tgcaagcctc tggatggcgt caagaagagt 240  
gctgagaacc ttggtgagat cctcatgggg gaccagatct acaactttgc ataccgctgc 300  
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<210> 43023  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A11

<400> 43023

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gtaacggcaa ccatatgcta aatagactag cgagactagt cttggttctt ctacagatcc 180  
tcattcgagg caggatcatg gatgtgcacg atctc 215

<210> 43024  
<211> 224  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A5

<400> 43024

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caataagagc cagccagaga aactaataaa actgtagccg tcgccatccg agcgagcaag 120  
ccaaccgtcc ccgtccacaa ggcaatccgc cgtcgacgta ccatcaccac cgtaagagcg 180  
agatggagat gaagaggata ctcttcgccc tcctcgtacg tatic 224

<210> 43025  
<211> 232  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B2

<400> 43025

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tcagagaaag ctatggattt ttaggttgaa agtcaatgtg ctggtgatca ttgtggtgag 180  
ggagtagatg tacctagggg gctcggccac gaagtaatag tatgatgggg ct 232

<210> 43026  
<211> 184  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C2

<400> 43026

ttccctgggc gacccactcg tccggtcata attgtgacaa gtgatggcaa gcaagttggc 60  
tacttaggaa ttgtccatgc tgaggtgcta tggaaatttg gcattccgga tccctgcact 120  
ttcgttgaga tggaccttgt atctctgtcg caatgcactt ataccagtga cttaggaatg 180  
cttg 184

<210> 43027  
<211> 286  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D4

<400> 43027



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 acatataggt aagaaacagg atggttcaca gtccccgtga aagtccaaga aatacaacag 180  
 ccgaggacat ctgcacttta agatctgcga tatcaacgct atgacctcct ttcaccaagc 240  
 cccatcgatc aacctggtgg tcttcttcaa gcctgatcaa ctcaat 286

<210> 43028  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-023-Q1-K1-E12

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 aacctgttcg agcacttcag cgcggtggcg cagaggctgg gcgtctacac cgccaaagac 180  
 tacgccgaca tctctgagtt cctgggtccag aggtggaaag tgcgggagct cacagggctg 240  
 tctggagaag ggagaagggc gcangacttt gtctgtacct tggcgccgag gatcaggcgg 300  
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 tatg 364

<210> 43029  
 <211> 132  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F1

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 cattcattac gacatggacg atgtcgcggt tctatccaca gtgcgcgctc cctctacgct 120  
 gtgccggaag gc 132

<210> 43030

<211> 194  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-023-Q1-K1-F10  
  
 <400> 43030  
  
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 tatgggacca tgatacatTT ggaaaggatt acatatggag gggcatcttg aactgacga 120  
 gagctatact acaatgtgaa ttccaagata cttttgtctt gcaagggtgcc aaatcggtaa 180  
 aactaaactt gcat 194

<210> 43031  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-023-Q1-K1-G11  
  
 <400> 43031  
  
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 accaaaggaa gcttgggtgtc ctaaaggggtg gagcacctcc aacagtggat aaaccaaatc 180  
 gactatcacc agcatttaca ggaagaagtt cttgacaaga taaatttcat cgttcaagaa 240  
 acatgttcac tatcccacat cgttcacgtg ttcgtggaag gtttccagcc ttcaaatatg 300  
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 ttgtg 365

<210> 43032  
 <211> 205  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-023-Q1-K1-G12  
  
 <400> 43032  
  
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 tcgatcaatt atgagggtcac agaataataa acatgggggg gcaagcctca cggctcgtcc 120

tcctctccgt cgtgggtgctg ttgtacgccg gcctcctccc gcaagctctg ggtaagggtg 180  
 tgggagggcat gggacaccgt gggcg 205

<210> 43033  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G4

<400> 43033

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 tttctgccac actctacctt ggctattccc tgatcatggc ccttgcaatc atgctctcca 180  
 ctgggtccat tggtttcttg ctctccttct acttcgtcca ctacctcttc tcgtctgtta 240  
 agattgatta gaggtgtgcc ccgctgcctc tttctgcaat agagtcattct gatcatgggt 300  
 ataggtaccc tcttagaaat actacactat atatcaaatg gataaaatgg atacatggca 360  
 acgcccattg ctttttggtca ttg 383

<210> 43034  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-A11

<400> 43034

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 cttctctata acccacaacc catcctaaga actcactttt cctaatacatt acacatgcag 180  
 acttcaaccc aaacgactta ctgtctacca gtgaacctga caaaaatata acaatatacct 240  
 gaaccttaat gaccagaacg atgcatatta catcatcttt aacatgaatg tgcacaac 298

<210> 43035  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-F9

<400> 43035

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tctaattaaa aaggatacag agatggccct ggggtgtcaa catatggcca ggcgagcgcg 120  
attcttcgtc gtcgtttctt ttaatactcg cggatgtata catgacaata tgcaaggtag 180  
tggcggaaga gacaactctg actg 204

<210> 43036

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-G10

<400> 43036

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ttcattaact actggaaatt atagagccac atctgttggc ctgtgaacct gcggggaagg 120  
actaacgagt cgaatatgac tgccggcggc ctttccgtgc gcacgacgac tacttctctg 180  
ctagcagcag tcactcctgtg cctatgcac gtctccctct cccccgctg agccgctgtc 240  
gcgcgggttt cctcgggcgc cagcccatga cgctcgtgat gcgctctgcc ttcgacgtct 300  
cgttctgcac cgtcagctgc atggagct 328

<210> 43037

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-025-Q1-K1-A12

<400> 43037

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tatttgtaat ctgaagctga caggaacatt tgagtggatc atggacggat tggttggcct 120  
cttgaaagtc cgggtggtga ggggcattaa ccttgccctac cgcgacgcaa gaggcagcga 180  
tccgnatgtc gtcctacgac ttggcaagaa gaaacttaag acgagcgtga agaagagatc 240  
tgtgaacccc atctggcacg atgagctaac tctgaccgtt acagatccca gcctagctct 300

gaagcttgag gtgtttgaca aggacacgtt cagcatggac gacccgatgt gggacgcgga 360  
gat 363

<210> 43038  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D11

<400> 43038

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gatcaaagag cacggtggcg atgacttctc ctttacgctc aaggagggcc cgactggcac 120  
ctggacgctc gacaccaagg ccccgctcaa gtacccctt tgcacccgct ttgctgtcaa 180  
gtccggcggc taccgcatcg ccgacgacgt catccctgcc gatttcaagg ccgacaccac 240  
ctataagacc aactcagca tctaataat ctctggtgat gaattagatt tcaaaagagc 300  
tcatctagcg cacatgttag caagacaata ttattttttc tatgggtatt ttgtggaacc 360  
aaaccacca agaaataagt gatgctagat gtaccttctg acctaa 406

<210> 43039  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E4

<400> 43039

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acgaatcaag cagaggcgcc atgggggttca cagatccaca cctaaaccgc taaattaaac 120  
tgcgagcgat acatgataaa ctaagaccac cactcagatc accaccatct tattcagatc 180  
caaaggaacg gacgcagggg gagtcgacga tgacggaggg agggcgggccg aacagaccag 240  
atcagagaga tctaggagag ctgtccgcag tcagcgacct tgaccacctt ggaggtggag 300

<210> 43040  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E9

<400> 43040

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tgtttgttaca gtatggctct tttctttctt tctttctttc ccctttcctc cattaagctc 180  
tgtgatgtag ctgcccgtac tgttgattca tgaaatcatg ctagagattt tttcctggca 240  
gtaagtgcgt gcctgtaaaa ctgtcgaact atttggacga aagttgtaca ctgcagtatg 300  
atgtaaccat caaaatctcc cctaaaaaaaa aaaaaaaaaa ttttaataata tttttatata 360  
acattaaata attttatttt agttttttta aaatacgttt tctacat 407

<210> 43041

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A11

<400> 43041

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gggggcgtcc gcctttctag agggtcctaa cttacctact cttgcatgcc acgtcctagc 120  
tccttaatct ggacatcaaa tttgaattca ctgtccggat ctatattacc tcggaactta 180  
ttaaacctg acatgacca atttaa 206

<210> 43042

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A2

<400> 43042

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gacgtaccta tgtggtgtac gtggctttcg cgtgtggcct atcggggggc acgatggcgc 120  
agaaccgtgg catcaccagc atcaagttca cctcggccac tttcgctgc gcgacaacca 180  
acctgtccc ggcgtgtacc ttcgtcatcg ccctcgtctt tcgctacgag aagttcgcca 240

tgcgagcct gtccagccag gccagggtcg ccgggaccct gcttggcgtc ggcggggcca 300  
 tgctgtcac cttctacaag ggcgtcgaca tcacgccctg gcacagcaac ctcaacctcg 360  
 tcggcacgct gaaccaagaa caccatcaca ccatcatcaa caacaacaac tacgccatgg 420  
 gg 422

<210> 43043  
 <211> 214  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B11

<400> 43043

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 atctgataat atagtgcac caaacttgaa ttgactggct gaggctttac aactacgga 180  
 ctgggaaaac gctgacaata ttcaaattaa taaa 214

<210> 43044  
 <211> 148  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B12

<400> 43044

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 ggggggggct tcctgtctag aggggtccaag cttacctacc cgtgcatacc acgtcatatc 120  
 tcttatatag tgtcaccaaa cttgaatt 148

<210> 43045  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C7

<400> 43045

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ggttcttcct cgctccgtg ggggtccgtt ccgtcccac cgccgcgcgc gtcgcattca 120  
 gggatggaga tgaagaacat cgctgcgcc agcctcgctg ccgactcggc ggtcaccgtg 180  
 gcactcgcgc cggaagcttc tcatccagaa ccgaccaggg gatcctcaac cgtcgcgcgc 240  
 aa 242

<210> 43046  
 <211> 56  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D4

<400> 43046

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<210> 43047  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E7

<400> 43047

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 taagggaactg tatgttggaa gagcacagaa gaagtctgaa agagagatgg agttgaagga 180  
 gaaatttgaa aagaatgttc aagaggtagc tgagaagtgc caaacacaa acttgtattt 240  
 gaagaactta gaggagaaca ttgatgatga gaaattgcgt gaactctttg ctgagtatgg 300  
 caatattac 309

<210> 43048  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F1

<400> 43048

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taattcagaa catgtaaaaa aagcacgaca tgtgcataga gaattgctga accagcaaag 120  
atcattcatc aacggcatgt cactttgcat tgtggccact tcaatctggt tcaagtttgg 180  
tcagatcttt tagtggttta acgcttatat tacttacaac aaaagataag cccacgaatc 240  
agtagatcga 250

<210> 43049  
<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F4

<400> 43049

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tatgtctccg ttgttgcatc tcttgaacgg attggagtgt ctttgcgtae tccctcagtc 120  
tagagtcaca atatacttat acatgttggt aaggaataag gatggagggg gatctttct 179

<210> 43050  
<211> 166  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H7

<400> 43050

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gtacttttca gatgcatggt tggacaacac cttttacttc cagcaaaaaa tacataatat 120  
gcatgtactc ctcatTTTTT ccgtatagta atataaacia attttc 166

<210> 43051  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A2

<400> 43051

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agcgcttgca cttgcagcgg cgggtgtacga tttggttgga gccggagcgt gaagtctcaa 120

gtgatcctgc aactgtcctg tcagttaaac tcaaagatgt tggaaattgt agtacgatgc 180  
 ggcccctgcg agttttgtag agttgaccct ctttcattgt ttttttttaa attcaaata 240  
 agtttcatta aaaaatagaa ctgtaaaaac tttacaaagc caataaatga ttaaagatta 300  
 aaaatctgtt acagatagtt gaagagcaat aattctgtac 340

<210> 43052  
 <211> 462  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-027-Q1-K1-A4

<400> 43052

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 tcatgtcgtc tgccgagggg gttgtttact ggcaacctcc tgagtcagca atggctaagg 180  
 tcgaaaaaat aattagggaa ccaacgctta gtaaataatgg ctctgatgat ggtcttcccg 240  
 agcttcgaga agcacttctt gaaaagttac gcagagagaa taagcttact aagtcattcag 300  
 ttatgggtcac tgctgggtgca aatcaagctt ttgtgaactt ggctctcact ctttgcgatg 360  
 ctggtgattc tgntgtcatg tttgcaccat attatttcaa tgcttacatg tcattccaga 420  
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<210> 43053  
 <211> 466  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A7

<400> 43053

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 attccacggc caagcggcag catcctggct acgaggaccc cgtggacctc gcctcccaga 180  
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cagtgattga cgatggcctg atcaacaagg aagaattcca gtttagcatta tttaagaatc 300  
agaggaaaga aaatcttttc gctaategga tatttgacct ttctgatgtc aagaaaaggg 360  
gtgccattga ttttggtgac tttgtccgag ctctaaatgt gtttcatcca aatatcccaa 420  
tggatgaaaa aattgatttc tcgttcaagc tatatgatat ggatag 466

<210> 43054  
<211> 210  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C12

<400> 43054

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atgggtctat cggatctagt ttgacagtat agtctatattt atttagagat aaaaatcgct 120  
tgtttaagaa taagtaaagc tctttattta agaagagggtg tttgagaatt aagacggaat 180  
gaccgttttc ttcaaaaaaa aaaataaaaa 210

<210> 43055  
<211> 175  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C2

<400> 43055

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaag gacaaaacat actggaggat gcaagcttac 120  
taactcgggc atgcaatctc tataactatt ctatactgtc acctaaattc tatta 175

<210> 43056  
<211> 189  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C3

<400> 43056

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atgctactat cgatatacaa accgagagca cagtacatat ggtcacacta ctacaggtgc 120  
acgcatgtat tgccgcttat aaatgtggga aaaaaaaaga taaccggttt ctctagcaat 180  
ggaaagaag 189

<210> 43057  
<211> 264  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-027-Q1-K1-D12  
<400> 43057

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catagaggta tactacttgt cattgagaca gtggtaccta cacggcgggt gagcagattt 120  
cgccggctgc cctcgtgatc atgcgatcaa cctactatgg gcgagctgtg acctatagcg 180  
acagcgaata gtagaccatg agagttccgg tgctatcctg cacacgttca acgcctgcct 240  
tcaaaaatgc atagatgtga gtta 264

<210> 43058  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-027-Q1-K1-F2  
<400> 43058

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gtttctttgt gacaagaatc aaaacaatgg gcgaaataaa atgactttct cctccaatag 120  
aaggtcaccg caccacctat ccaatatatt ccgaaactaa ctaaactgtt cagcttgctt 180  
tttatcccc caacgttaga ctacgccacg gacccaaaaa aaaaggagac tagatcccta 240  
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tgtttccatc agcagtttgc tgtcgtggaa cgcgaagcag attacctgtt ggaccttaga 360  
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tttctcgagt aaagtt 436

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 ctctgtatct attctcogag gctacccaag aaattaccca ccatcaaaat acaagggttc 240  
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 <213> Zea mays  
  
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 aagcaataaa aaaaaaaagg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggcga tcagagcgag gcacgggaag 180  
 ggcaacgaca gagccatgag ttacaaaaag gtcccggagt cttatccgcc accagggtac 240  
 tggaagccgt accaaccgcc caaggttcaa ccgaaggggc cttactacce gtcgccgaat 300  
 taatgaattc tgggggtacca gggttacttt aacgacggac agaaacccta cggttatccg 360  
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 aatcatggta actatcacta acaccacgaa tatgatgact gatgcctt 468

<210> 43061  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-027-Q1-K1-H2

<400> 43061

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gaatttagca gtcgtggttg acacctgcga gcaaaggctg catggggttg tgggcagtat 180

gcccataatca acttttcaga cccgaacaat tgcgtgcagg ctatgcactg tatagtttca 240

ggaatgcatg atccagatct tactgcgagg gttgattagg tctttgcact tcgttcattt 300

gctgaagcct gcaaagattt aaatgagatt cgacctatac ttactcagct ccttgatgaa 360

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gctgacaaat cttgtgaaga gatggcacct tatgca 456

<210> 43062

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A3

<400> 43062

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gaatccgact tatctagaat gatatacaggc ttgccaatcc ttatggatag aactggattg 120

atccgcatgg gaccatgata ttcataagac ccaactg 156

<210> 43063

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B5

<400> 43063

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tcacgtggat aactctgggc atcaccggca agggaaacct tgacgggcag ggcccagctg 120

agtggagcaa gaactcctgc accaagaagt acgactgcaa gatccttacc aactcgctgg 180

tgatggactt cgtaacaac ggggaggagt tcggggtcac gctgctcaac tccaagttct 240

tccacatgaa catgtaccgg tgcaaggaca tgctgatcaa ggacgtgacc gtgacggcgc 300

tccacgacag ctccaactct tattgcatte acatggg

337

<210> 43064  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C2

<400> 43064

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ccctccatta aaactaattg acataccggg cgttgaccaa cggagcacgg atgaatcaat 180  
aagcaactat gctgcacgca acgatgcaat tctactagtt atcattccag ctcttcaagc 240  
gcccgatgtg gcatcttctc gagctctaag gattgccaga gaattggact cagaaggtag 300  
tagaaccatt ggtgttctaa gcaaaatcga tcaagcttct ggagaacaga aagccctggg 360  
tgctgttc 368

<210> 43065  
<211> 245  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E2

<400> 43065

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tcgtctccca gtcaactagg gattgtggag gatcgtcgtc gccatatggt gtaatatctt 180  
ttagttatct tgtacagaat ttctattaag taataaagat atgacattga tttctgtacc 240  
aaaaa 245

<210> 43066  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F4

<400> 43066

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ttggttgctt cgtgccgtgg cctgggaagt cgatgactgc tcatcatggt aggaggcccc 180

gaccgaccgt gcaaccgtgt gccgacgctg tggctgtgcg ccaatgaaat cacgggtcaag 240

aacaggtagc acaggatgag ggcgttgagg gatgctgtga tgagttcgtg agtgggtctag 300

gccgtcgtct cccagtca 318

<210> 43067

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G3

<400> 43067

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaactaaaa aaaaaaaaaa aaaaaaaaaa aggggcgtcc cttataaggg ataaaatttt 180

acgcaccgtt cttttcaaag taaaagtttt ctaaaagggt aactaaaatt aaaataatgg 240

gccgtgtttt taaaatcctt attatctgga aa 272

<210> 43068

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G4

<400> 43068

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aatggattaa ggacatc 77

<210> 43069

<211> 89

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3075-028-Q1-K1-H3

<400> 43069

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attatggggtc cttgtatgct ctggaaaaa 89

<210> 43070

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H6

<400> 43070

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cctattatttt ctc 73

<210> 43071

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A8

<400> 43071

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cttactgggt gtgctactgg aaaggccatt ctttcgttgg gccttaagat agggatggat 120

ttctgcgatg tcaggacaaa atcttcagtt attcatgttt ttccatttaa ctgggagaag 180

aaacgtggcg ctgttgcagt acagtttgat gatggtgttc acatgcactg tttaggtgca 240

gctgaaatag tggtatcacc ttgcaaaagc tggcttatcg actgtggctc tgttcattca 300

atgagtgtcg ataagcacga tgaat 325

<210> 43072

<211> 290

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-029-Q1-K1-B5

<400> 43072

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 acatgggtcgt taagagtcac aggttactct gaacgaaaat gggaaattaa cccaggggtg 180  
 tcaaagggtgg ttttggtgag gtttcagaat gacacttcgt ttcttgagac tgtggggccac 240  
 cgtcgtcgtc caacttgggg cccttgaac ccttctggac agggcccttc 290

<210> 43073  
 <211> 202  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B9

<400> 43073  
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 atccgaaaac tactttttct cttagaagtt cactagatga tatatattaa tattacacac 120  
 atatttagaa atcgatataa atcctttcgt gatattgttc cttgcacgga gcgttatcat 180  
 aatatatgct tcacgtgctc ac 202

<210> 43074  
 <211> 327  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-C2

<400> 43074  
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 tagtcaagcc tgaggactgg gacgatgagg aggatgggtga atgggaggcg ccaaatatgc 120  
 acaatcccaa gtgtgaagag gcacctggat gtggcgagtg gaagaggcca atgaagcaga 180  
 atcctgctta caagggctag tggcatgcac ctattgttga caacgctaac tacaagggaa 240  
 tctggaagcc tcatgagatc cccaaccctt agtactttga gcttgacaag cctgactttg 300  
 atccaattgc tggatttggg attgaga 327

<210> 43075  
 <211> 361

<212> DNA  
 <213> Zea mays  
  
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 <400> 43075  
  
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 tcattggact gccacaatca ttattcttat cagggtcatgc tacctgaagc aattgcaata 120  
 gttatggcac ctactgacac aagtaaacad gttatatttc atctcacgga tccaggtggc 180  
 atgggcgtga tccatgattg tcaagagaga gggttccatc ctcaaacggc accacttgat 240  
 gggacgcca tatatgagca gtgctcccat gtgtacatgg acaccgatat aaatttcgat 300  
 atgattgatc tgcgacaaag atgacgaagc tcaccttta gtttattttg caacctatac 360  
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<210> 43076  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-029-Q1-K1-C5  
  
 <400> 43076  
  
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 gggtagcggc agaggaggac tgggtcgggg atagcgggta agttcctaag gaagctgaca 120  
 gaagaggaga gggcgtgcat cgctcaatca gcaaccaact agatcaacct agcccagggg 180  
 catgcagccg agaacgcca gaagcttcga cgagagttag caggagaaga ggctgaggaa 240  
 gaagtacgag cacaagacg aggagtgcga gcgcgggcta ggggtgagcc gcgagatccc 300  
 gccctagcac atccttcccg acaacatcct cccacac 337

<210> 43077  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-029-Q1-K1-C9  
  
 <400> 43077  
  
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attctgatgg gttccttcag ggacattaaa tggaggccta tatacgaggt ctgataccca 120  
 acttggcaca gttacgtgac atgccaactg cctttgttca aatgtattgt cgtattgctg 180  
 cacacaaatt cttcttcttt tgcgatctc atagacgagg aaaagcttgc attaagaaag 240  
 ttttgcttaa taattgtctc caggaactca tggagcttta ccaggaaagg taataaaaag 300  
 tcacggacac aaagcaagcc gaaaacttgt tctctttgac ttctgctcaa cgcatatgtg 360  
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<210> 43078

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D3

<400> 43078

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 atcggagtaa tgtaacgaca gaaaaaagaa gtaactacta cagaaactat ttatagaagc 120  
 ggtagattca cttcataggc tatagcaact gtctttacca agggatatga gaaaatgatt 180  
 tattaaaaat aatagtattt attaaat 207

<210> 43079

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D4

<400> 43079

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 ttaccgatga agatgaaggc aatgggtttg aacgcttgaa ggagatcgat cctatggctg 180  
 cgcagaggat ccatccaaac gaccatagaa aaatcaaacg ctacctcgag ttgtatgcaa 240  
 ccgcgggtgc cctaccacgc gagctgttcc aaggagaggc ctctgagaaa tgggtgctggc 300  
 ctagtaactc cagactctac t 321

<210> 43080  
 <211> 484  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E9

<400> 43080

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tctgaggctg agtggagtta ccgcataggg cctaggtggt aaggttgagc catctgcagt  180
tccttcagct tcaattcttg atgttgctga tggacaggcc ccagctgctg acgaggatga  240
cgatgatgat gttgacctca ttggagagga gactgaagag gagaagaagg ctgctgaaga  300
acgtgctgct gctgccaaagg cttgtggcaa gaagaaagaa tctgggaaat cgtcagtttt  360
acttgatgtg aagccatggg acgatgagac tgacatggtc aagctcgatg aagctgggat  420
gagtgtccag atggaaggac tgctttgggg cgcattcaag cttgtcccat ttggatatgg  480
catc                                             484
  
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<210> 43081  
 <211> 499  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F9

<400> 43081

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accgaaagcg cggcacgacg acagcagcct ggacctgatt ctcgcccatg gaagcggcag  180
gctgagactg ttttgcttct ttgttgcta tcagctctgc tggcatcttc tacttcccct  240
acgtggaata tgtcaagata aaagaagtga atgttaggcc agttggcagt acccacagtg  300
gttggtggcgt cgactgtgag cttcttgatg gagagcgcgg tgctgaatgg cagtgtctgc  360
tgctttcagc acaaggcatg ctgcttgccc aggatcccgg tgctttcaac tagttagggc  420
tcgttcggtt agctctcaat ccattgttga tttgagttag attggatgaa tttgaatccc  480
aaacaatata aacttaatt                                             499
  
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<210> 43082  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-G3

<400> 43082

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gtacatcact gacatgaact tcgagcctat cgggtccctac cacttcgact tgagcggcaa 180  
ggccttcggc tccctggcaa agcccgggct caacgacaag ctttgccact gcggcatcat 240  
ggacgtcgag ttcagaaggg tgcggtgcaa gtaccccgtc gggcagaaga ttgtgttcca 300  
catcgagaag ggctgcaacc ccaactacct ggccgtgctt gtgaa 345

<210> 43083  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-H3

<400> 43083

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ttgttcgatc ttacgcgagc ttgtggctgt tcgatttaag tggatctggc attaccgaca 180  
acgggcttgg gatgatcagc aaagcattcc ctgacaccct atcacgcctg ctctggctg 240  
tgtgccctaa catcacgtcg tctgggggtcc acgtgtctgc agc 283

<210> 43084  
<211> 253  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D3

<400> 43084

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tctgctcgtc aagttcgagc tttctggcat cccttcggcg cccaaggcg tccccagat 180  
cacctgttg ttttacatgg atgctaacgg tattcttaac gtgttatctg aggacaagac 240  
ctccggtcag aat 253

<210> 43085  
<211> 376  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-030-Q1-K1-E10  
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cttttctcct gaatatgagc atggaaatga catttctcct aagaatcatg ttgggactaa 120  
tacgatgatg gggttacgga atggcttatt tacttgtttg atcggtgctg ctattagtgc 180  
aaattttaca ttgtcaaata caaatatttg ctatggctctt attggcgaag aaattttacc 240  
agaactagat tcttcaaact cctttataaa aattatttca tcttcattaa tgtcaatatt 300  
ggactcgttt tctactctac aaaggatgtc tgtgtcaact ggtagcgta atatttggca 360  
ttcagttaaa atattt 376

<210> 43086  
<211> 287  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-030-Q1-K1-E12  
<400> 43086

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cttttacgga agttacatgg aatctgatcc agtgaaaatt gctgttgagg gtgtggagag 180  
gttcaagaaa gaaaactgtg atctcatcat tgtggatata aggggaaggc acaacaaga 240  
agcagcactc tttgaataaa aggcggaagt tgtggaagca acaaaac 287

<210> 43087  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E2

<400> 43087

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 gcttccctag aactgtcact caagcacaga agcttgatga gatggttgga aagcaagggtg 180  
 ctaatgttga caaggtccta aactttgcaa ttgatgatgc tatattggaa gaacggatta 240  
 ctggccgttg gatccaccca cccaggggga ggacttacca tacaaaaatt gcaccttcaa 300  
 agtttccaag agttgattga tgtaacgtgg agagccattg attcaaaagg aggatagaca 360  
 cttgccgagg tttttaatgt caaaggtttg aagcctttca caaacaact gagccctggg 420  
 attga 425

<210> 43088  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E7

<400> 43088

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 taaggaaggc gaggggtgtga aacgtctgaa gctggaaaca ggagcgggag cagcaattag 180  
 ggtcttgga ccatgccatg atatcaacgg accaaggggc cgctgcctac caaggaaggc 240  
 gacatgagat tggcagctag gacagacgga actatatac 279

<210> 43089  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-F7



<400> 43089

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tctacaggca acacctctcg ccaatccagt ccggttgctg caagccgtcg acgtggtgca 300

ggttccggta cgtgaacgcc acgttctggg aggcaccgag atcggggctg tctgcggcg 360

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gcgacacgtg caaagggcg cttgctggag accgcc 456

<210> 43090

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-G7

<400> 43090

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tctccaacat gatctgatcg atcttctttc tccacggacg acaacagata gccgggcgtt 180

ttggggcctc gcatcgtttg gcgcgctgc ttaacggctg catgcccatt cccgcgagcg 240

cgctcttgcg cgacaataac tgatgagtta attttggtt tgctttgacc atttctataa 300

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<210> 43091

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C10

<400> 43091

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tcatgaagag cgtggagaag aaggacccat ctggtgcaa ggtgaccaag gctgtagtaa 120

agaagaaatg atgcgtcctc tcatgtgccc ttgtttatatt tgtacttgtg cccgtataact 180  
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<210> 43092  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C4

<400> 43092

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 agcatttcta aacaagtttc atcatcagca aaagggccta ctgtcgctg tcaataactaa 180  
 caggatatac tcgcctaggg gtcttgatcc atcagttctc cattctccat ttggtgggtat 240  
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<210> 43093  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D4

<400> 43093

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 tcggtgcacc atcggcgggt accttccacg tcgggcaggg cttcaagccc ggccacttgg 180  
 tcttcacccc caacgttgtc accatctcta acatggagat caaggatcac cgggggggacg 240  
 actgccccctt tacactcaaa gcgggagcga ctgtgacttg gacgctcgac atccagaccc 300  
 cggtcatgta cctgatctgc aaccgcttat gtgccaagtt cggttgctac cgca 354

<210> 43094  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G5

<400> 43094

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tggtatacaa ggttatgctt ccgtatgaca gaattccagc ttatgttgga acacttttaa 120  
ctttgtgccg caatcaacac tgcacatctc atttaaaaaa cgaaggccta atacatgtgg 180  
aaattaaact aaaatctgaa agcttcacaa aatgttcgta tccgctctc tagcatactt 240  
tggtgttgta aaccacacct gtggttacct taactagaaa caaggaacta acctgcatat 300  
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<210> 43095

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H4

<400> 43095

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tattaggttg tgccactggc caccactaca ctacattaca ctagcacaag caagcagcta 180  
cacatacttg tccatatcac ataaacgaaa cagcatatat aagaagatgt cccaacatct 240  
ttgcaccacg cgcgagatca ggggccttgc aggccgaact cttcagggcg cggcccaccg 300  
gttttttttt cccctttttt tttccccccc cccttttttt 340

<210> 43096

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A11

<400> 43096

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tttgtgccgt agaaatatgc tgtcttgtgt taagggtgtc gaacatcttc actgatcact 180

attgcattga ccaaaatatt g

201

<210> 43097

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C1

<400> 43097

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gctctgcgcg acaacatgaa ggcattgcga atcctgatat ccggaggctg ctttaagatgg 180  
gcggtcttaa cctcatttgg gggctcatgt acgaggagaa ccgagagagg ctcatgatct 240  
tcctcctgaa cttaatgcga aacggcaaga cctactcgga gcacagcccg ctaaagagcg 300  
ttagcgcatg aacgcagcta cagaatgaag cgccaaggtc ataccctgta cagattcagc 360  
agctgacagg cgctaccgtc aatagtattc gtggcaaaag gcttagatcg ccgtcaagaa 420  
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<210> 43098

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C2

<400> 43098

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agaccaccct cagcatctga ttagcctctt atgacgaata atattttgag agagctcatc 180  
tggaccatgt gccagcgagc taatatTTAA tttttttctt tggttatatt gaagcaccac 240  
atgagccaag aaaaaagtta tgctacatgt cccttctcgc gcaaaaca 288

<210> 43099

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D2

<400> 43099

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ataagccttc tgattttctac ggatcgatcc cttgataatg acatgggtggg ttcgagccat 120  
cgtccatgat ggccaagtgc gaccc 145

<210> 43100

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F1

<400> 43100

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cgtatactaa aaccggttgc ccaagaagct gtacggggcgc cacgtgggtg tcggcaaggt 180  
ggtgaaaggg attgacgtcg tgcgcaagat cgaagcctag ggccagctca ccggcgtgcc 240  
caaggccaag gtcgtcatat ccaacagcgg tcagctgaca gcgcctgcct ccgccggcca 300  
tcgtgacctg tgatcgatga cgaggagaac gacttac 337

<210> 43101

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G1

<400> 43101

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acgtatcggg cagcagattg atctcatgat gtcagacaaa caccctgtta aagcaatgtg 180  
tgacatccgc gatttggggc tattttatgt tgtattttct tttcctgaaa aatccaaccc 240  
tcctgttttt gacaagtgtg attggcagtg ggtttcacat attggagcca cttgggatct 300  
tgcataatct attggcaggt ggggtgggtcaa caatgggtct taactcaagt cgcaagatga 360

gccaaagaaag ctgtacttgg atagtgcatt attcaacccc cttcgaagta tggctctacct 420  
 ggacaaaag 429

<210> 43102  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G2

<400> 43102

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 aatcaggccg gtgaccttcg cggggtcgac gtggattcgt ctgggaccgc gacgggtgag 180  
 tccgagaact ggggcaccgc taatcgctcg ccggacgtct ggcgcgctca ccaaataact 240  
 gttcgccgtg gtccggtctc tgcgccaccc gattgccgac gagcaagcca ccgtggaatc 300  
 tgaggttcag caagtagaga tagctgagca ggagctcatt gaatgagaag aacagggtgg 360  
 cgaagaggag tcgcctaaca ctgaggagtt cgatctgac taagtggcgt ttctcagttg 420  
 acttt 425

<210> 43103  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H2

<400> 43103

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 ctggaccttc gatgatgtcc aggtgaacga catctcgctg aacgactacc tcgctgtgaa 180  
 cgcgacgaag cagcgatgt acctgccgca caccgcgggg cgctactcca agaagcgggt 240  
 ccgcaaggcg cagtggccga tcgttgagcg ccttacaac tccctcatga tgcacgggcg 300  
 caacaacggc aagaaggta tggctggccc catcaataag cctaccctgg agatcattca 360  
 cctggttacc gatgccaacc ccatccaggt cgtcggcgac gccaacatta a 411

<210> 43104  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A10

<400> 43104

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 gcagtgccgt ccaggccacg gcatgagcgt cggcagcttg ggtcgctact ccagcgaggg 120  
 agacgtgaca cgggggcacg ttcgcgacat gaccttcacg ggcacatga acggcggttcg 180  
 catcaagaca tgggagaact ccccttaca tagcaacgcc tctcacatgg tcttagagaa 240  
 catgggtcatg agggactgtc ataaccccat ttatcataaa tcagaagtac tgagcctact 300  
 acaactgcga gcgcaagtac atggccgggg tgactttcaa tgacattgac ttcaagaaca 360  
 tcaagggca 369

<210> 43105  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A4

<400> 43105

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 taattttcag aagcacagtg aagagttttt attattttca tttttgttgt actctgacat 180  
 gtgagcccta taagtatggc aattttggca cggttttgcc gttgaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa agagggtggg aaatg 265

<210> 43106  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-C5

<400> 43106

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 gtgggttgca caantttctt tgtggttccg tggcggttgcg ttctagagaa atatgtaatg 180  
 cttgttcggg tatgacatca aaaggngcgg tagaagtgcg atatgtatcg ctaaaaattg 240  
 ctaccttttc attcacattt cacactgggt atacctgtca aagatctatg cccttctttt 300  
 ctattga 307

<210> 43107  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-034-Q1-K1-G4  
 <400> 43107

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 cattggcgtc ntctactact gcatcttcat cggccccggg accttcaatg tgaacatcac 180  
 cggcgtgacc tgcggtcctg tgcactgtat catcatcttc tgtctanggc ggtacaagga 240  
 cgagaaggac gtcacggaca tcaacgtcaa ggattgcact cttaatgana cgggtgtgcnn 300  
 cgnncggggc aatgcgtact atgacgccgg ctccgtgctc accgtcttca acatccacta 360  
 cgagaatatc aagatggagg actcagccaa ccccatcttc atcgacatga agtactgccc 420  
 caacaag 427

<210> 43108  
 <211> 479  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-035-Q1-K1-A7  
 <400> 43108

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 gaccaaggat ttggtgatta agggggcaga ctggatagtt aatgaaatga agaaatcagg 120



tcttcgggggt cgtggagggtg cagggttttcc ctctgggtctg aaatgggtcct ttatgcccac 180  
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 ttgcaaagat agagaaatca tgcgccaaga cccccacaag cttctggaag gatgccttat 300  
 tgctggagtt ggaatgaggg catcagctgc ttacatctac attcgagggtg aatacgtgaa 360  
 tgagcgtctc aacctcgaga gagctcggca ggaagcatat gcacctggac ttttcggtaa 420  
 gaatgcttgt ggatctgggt atgattttga tgtgcatatt cattttgggtg ctggtgcgt 479

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 <211> 514  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A8

<400> 43109

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 cggacaggcc cagcgtctcg tccactctga ccttcgggc ttcatctgcc gcaccggagc 180  
 caccacacct tcgcccacca cacgggagac gctccatcgc tgctatggtg ggccctacca 240  
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 ggccgtcatc gtcgtacca ccacccgatg gctgcgcacg gtctccagat ctgaataggg 360  
 aggcgacca acggctgcgc acgatctcca gatctaaaca ggaagcggca tggggggcgt 420  
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 tgggaaccga tccaccttta ccatttgcgt ggga 514

<210> 43110  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B1

<400> 43110

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tgagaatatc aagatggagg actcgggcta ccccatcatc atcgacatga agtactgccc 180  
 caacaagtta tgcaccgcca atggtgccta caaggtcacc gtcaaggacg tcaccttcaa 240  
 gaacatcacc ggcaccttct ccaccccgga ggccgtcaac ctgctctgct ctgccaagat 300  
 cccatgcacc ggcgtcacca tggacgacgt caacatcaag ta 342

<210> 43111

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B10

<400> 43111

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 gggatcacca tgaccaacac cgtcatcggc agctcgcgac tactgcatcc ccatcggccc 180  
 gaaaacctcc atggtgaaca tcaccgtctt gacctgcggc cctggcacac agcatcac 238

<210> 43112

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B12

<400> 43112

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 ctggtactgc ggctcccttc tggccgtggc catcgcgctg ttctgttccg tgtccctcgg 180  
 cgtgcgcgcc gccggcgccg gcgcggcgt cgacatcaag gtgtcgtgtg cagcgacgcc 240  
 ggacccggac gtgtgcctac gcgcgctcca ggccgacagc gactccaaga ccccgcgga 300  
 cctggcgagg gcggcgctcc gcgcggcgac gaccgcgggc ggcgcgggcg gcgactacgc 360  
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<210> 43113

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C11

<400> 43113

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aaaacctct tttaaaaaag gtgcctcacg attgagcact gaacatcaac ccctagtcca 120  
cctgtctatg cacaccctta cactaatcaa cttctcatat acattaaacc ttattgctaa 180  
atctctaaaa gatctcctgt aaacccaaaag gaaattttct cttcatacac acc 233

<210> 43114

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C3

<400> 43114

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gacaagattc aggataacct tgcgctggta tacctgtcaa gcatcacaag gacacaaatc 180  
agcatcgccg agaagttgaa cactgctgct caagtgtgt acggttgggc ggtgtggcat 240  
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acagaaatgc atttttgtac tcattattat tattgctaaa tgagagacct gatggaaagg 360  
gttagccaac gatgagatcc cataatgttg ccagaatgcc agtagagtgg tggatggcca 420  
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<210> 43115

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C4

<400> 43115

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<210> 43116  
 <211> 283  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-035-Q1-K1-F11  
  
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 tctcgcggcg ctgtgcgagc agtcgtccca gacgttatct gatacctcgt gatgcatttc 240  
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<210> 43117  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-035-Q1-K1-F6  
  
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 gaactcatca cagcatcctt catgcgcctc atcctgtggt acctgctctt gacctgggac 180  
 ttgagattcc aggtaccaac ttgctctttg gatgacacgt gaccttaccg catagtttga 240  
 agttgctaaa tcgcttgcca tgcagtgcag atggaatgcg ttcactctca aatttcgggt 300  
 agaaattgcc catgtgtgag accatcgcgt gactcgtaat ccatgcacgg cggctatgaa 360  
 tatggaggca cacgttcgct ggttttctct agagcgaccg aaacggcaac ggggc 415

<210> 43118  
 <211> 242  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-035-Q1-K1-G3  
  
 <400> 43118

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taccgatatg taaagtctta tttccacctt tcgaattctt ttcttcggta gctaagctta 180  
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ta 242

<210> 43119  
<211> 160  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D11

<400> 43119

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tatcacaaca tgatgtcgtg ctcaaacaag gcgaggagag ccttgttcct tctgttccct 120  
ttatgcatca tgcttggtgt taaagaagag tcaatgggca 160

<210> 43120  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D3

<400> 43120

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ttgggtgatg ttttcatggg agtctaccac accgtcttcg actatggcaa gctgagggtt 180  
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gctttccgat acctgatact acgcccgtct gttttaacgt ggcgcaagaa taa 353

<210> 43121  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D7

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caagctgaag aacgagttcc ccgagctgct gtcgatcaag gactcgttga tcaagtacgt 180  
ctttgagccc aacagaaagg tgcccacaga ctgaagtccg aagggctggc acagctgata 240  
ccgtacaaca cagcaacat tacaagtgtt agactatgtg tgtgggcccag cactactttt 300  
gggttgctg cctattaagg ttagagtcct gtgagtctat atattgtacc tcatctctta 360  
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<210> 43122

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E4

<400> 43122

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tacgtggacg agcacctgat gtgcgagatc gagggccacc acctcgcggc ggcgcccatc 180  
gtcggccacg acggtgccgc ctgggcgcag agcacggcgt tccccgagtt caagaccgag 240  
gacatggcca acatcatgaa ggacttcgac gagccagggc acctcgcgcc gacaggcctg 300  
ttcctcggac ctaccaagta catggtcatc caaggcgagc ctggtgccgt catccgtggc 360  
aagaagggat caggaggcat caccgtgaag aagacagggc aggcactcgt cgttggcatc 420  
tacgacgagc cgatgacgcc tgggcagtgt 450

<210> 43123

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E9

<400> 43123

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 ctttgggtgtg aacataatgg tgcgcaggat acatcacaac gatgcatgtt acccattgggt 120  
 tatacttttc tctctctaac gattggaaaa ttatcaagtc agttaacatg gtgattcaat 180  
 tttgagaatg gctggttata gcttttcatg tactccttca attcctaagg aaaag 235

<210> 43124

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-G10

<400> 43124

ccggaatacc cggggcgacg ccacgcgtac ggggtgccgag agcagagcga gataaaaaaa 60  
 aaggggaaggc gacggaaacg acaagggcga cggggggggca gggacaagga cagga 115

<210> 43125

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A8

<400> 43125

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 taatttttgt ggcttttgat gttggaacgc cgattttcaa atcaaagctg acgaccactt 120  
 cttgatc 127

<210> 43126

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B3

<400> 43126

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 ggagatatat ttggaagatg ctggagggtgc tcaaaacact tccgagaaac aacttattct 180

ggcggaattt gtcctaataa tacatatattg ccattagttc aattcttttg ccatgctgct 240  
cggttggtat ggccgaggac aacatctaaa tattatgtta tgacagtt 288

<210> 43127  
<211> 143  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 43127

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atcgtatcgg cgcaggacac acaacgcggg cggcgacacg gtcaagaagg ggggggggaa 120  
caaactcgag accaacatcg cca 143

<210> 43128  
<211> 277  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G9

<400> 43128

gcgtagtggt cgataataaa acccagcgga acaaagaaaa cgtgtaccag aaactgtttg 60  
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aacaagcttt ccacttgctc atttccgagc gtttctcttt gattgtatcc atggtttgga 180  
ctcatgactg tacgtcttgg cagttggctt ggcacccagg aatctaata ca ctggagtgc 240  
tgctgttatc gagactttgc agcgttgcac tctaaaa 277

<210> 43129  
<211> 54  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H11

<400> 43129

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<210> 43130  
 <211> 179  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 43130  
  
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 cgccacgaga cgccgcgcga accgacccag gccgacgcgg acaaccccc gcggcgcgg 120  
 gggacaaagc gnacagcgac cgcgccacca cccgcgagga ccccgagaag gagagcgag 179  
  
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 <211> 87  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-041-Q1-K1-H7  
  
 <400> 43131  
  
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 tttttaataa caactaacc aacatta 87  
  
 <210> 43132  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-042-Q1-K1-B1  
  
 <400> 43132  
  
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 acagagtgtc gagcctgtct tattatacaa aggggaccgg aaggagctaa agctcaagat 180  
 caccggacgg gtctggaaag agcagcagac accagacggg gcatgtactt caaatctggg 240  
 cagctaatta agcaatcttc aaacaaacaa aaacacacac ctgcctgta ctttctttct 300  
 aattaaacgn ggtgggggtg ctcaaaggga tttatttatt tattactaat ta 352

<210> 43133  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-042-Q1-K1-B6  
  
 <400> 43133  
  
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 gtgatggaca acatccgggg tggtgaggta ttgacggagc atgcctatgt aagatgaagg 120  
 tggaccccaa tagaagggt 139

<210> 43134  
 <211> 250  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-042-Q1-K1-D2  
  
 <400> 43134  
  
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 agcaataacc gaccagtctc gtggctttgt ttcaagagcc gctttgcggt atatataact 120  
 tgatcaaggg ataattaatg tgattcttct gcaagtactg attataatat gctaacctga 180  
 atatattgtc taactcggac attttgggga tattgaataa acaatgggag tgtttttttc 240  
 tttcttgcaa 250

<210> 43135  
 <211> 87  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-042-Q1-K1-D3  
  
 <400> 43135  
  
 cccacgcgtc cgcccacgcg tgcgcccacg cgtacgccc cgcgtccgcc cacgcgtccg 60  
 accacgcgtt cgcccacgcg tccggac 87

<210> 43136  
 <211> 197  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F3

<400> 43136

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gcaaaagtct gcgcttcaca aggtgcaaca tggctggaaa gcctgctggt gttactcggt 120  
gtcgggacag gatgactgac aacctcaaaa ctactcgcg c aaaagcaact gatgtggcaa 180  
atgccagtct tgatggg 197

<210> 43137

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F4

<400> 43137

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cgtccatgta caaaaactag ccactacaca tcacgcgagg tggctcccga ttattcgact 120  
tgctgcacgg gtccaattca gttcatcacc atacacgcat gcacgtggc gcacgccact 180  
cacgagcgcg gcgcccacgc gccacaact tattacgac 219

<210> 43138

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G7

<400> 43138

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gtccttaac aacctaaca ctgtggggcg cgacggaacg atcgggggccc ccaagttctt 120  
caacatgccg ctgatgctaa tgaagaacat ccgatgacg cgggctcaag atcagcgcg 180  
actccaacag acccaacacg gatggcatcc acatcgagcg cagcagcggg atatccatca 240  
tggacacgca catcagcacg ggcaacgact gcac 275

<210> 43139

<211> 340

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-043-Q1-K1-A2  
 <400> 43139  
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 cttgccttct tactctaaac atggggcact tgccagagac atgatcatgg gggatataat 180  
 gcacatctta tcattcctct ggacaagtac acaagccatt atatgtcgtg ctgcactacc 240  
 cacttactga tggatgcgat ctcaactcgg gactctgccg tatgattctt tccccctttc 300  
 tgctcatcca cttgtcatt ttaagcgact cttgctgttc 340

<210> 43140  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-043-Q1-K1-B12  
 <400> 43140  
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 cacatgctct gggtcggcga gcgcaccgg cagcttgatg gcgcccattg ggagttcctg 120  
 agggggatcg ccaacccct tggcatcaag gtgagcgaca agatggagcc cggcgagctg 180  
 gtgaagctga tcgacatact gaacccgacg aacaagcccg ggaggatcac cgtcatacaca 240  
 aggatggggg cagagaacat cagggtaag ttacctacc ttatccgcgc ggtccgccag 300  
 gctggacaga gtgtcacctg gatcactgac ccgatgcacg ggaacacccat caagactcct 360  
 tgcggacgaa agactcggcc atttgactcc a 391

<210> 43141  
 <211> 167  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-043-Q1-K1-E7  
 <400> 43141  
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ccgtaaata gcggtgatca taaagtcccc ggggaaccag actttcggga gggtgattcg 120  
atccttgttt gggggatgct aatacagctt tgtgtcgcgc ataattt 167

<210> 43142  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F12

<400> 43142

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agctcaaggg catggccgct gacatgggct ccgagcttga caggcaaac gaagcgctgg 120  
atcatctgca aggcgacgtg gaggagctca actccagggt gaaggagca aaccagcgtg 180  
cgcgcaagct cgtcgccaaa taggccgctt agctcgaacg tgggagcttg cgcattcctg 240  
ggtctggttt gcgccacgat tcaccctcgc cggttgattg cttgctgtaa catgcatgta 300  
ttcgctctcc attgcattgc attgggagcg ttttttctgt tcaacagaga atgttctttc 360  
tccttgcaat gttcacc 377

<210> 43143  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G1

<400> 43143

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gcgttcggaa gctgatgggt acgctgcact cgaatgcctt ggttctaggt atggatccca 120  
gacagacgat cagcgggtgg ccattggcttg cgtgcatgcy caggatcatag ggatcagcga 180  
cagcgccatc taggagctgt gatgtcggca tcgagaggct gatagagatc aagctgcgctc 240  
gaatggagaa gctgcaagac ctgcttgctca gcatgctgga gctgtgaaac ctgatggaca 300  
cgcttgctga tgagcaacgg gggttccagg gcatgggctg caacatttac gcatgcgagg 360  
acgag 365

<210> 43144  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A1

<400> 43144

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aaataattac accccgtaag tcaagaatat ggtcacgaca caggtcacag cgagctgaac 120  
aatctgcagt caaaaactgg cagctactag ccgctactga caaacagaat tcacatgact 180  
agctggccaa ggacccccta caaaaagcaa cgactcatca cttgggtcca agaattcgag 240  
gttttggttg ccagtactga tccaagcgct 270

<210> 43145  
<211> 290  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A9

<400> 43145

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caccttctgc gcccatacct gcgggggttg gacgcctcag cgcgggccct ggggcgggtg 120  
gagccgcacg agtttctcaa gccagcgag tacctgggca gctgggagcc cgcggcggag 180  
cctcgggagg cgtgggcgcg gctggaccgg ctgcgcaagg ggtacgcgag cgaggtgcgg 240  
gagctgcggc ggcagtacgc ctacgaggtg caactgttgc aggccgagcg 290

<210> 43146  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B1

<400> 43146

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gtgacattat agatggctta ttcgtatcaa tatttaaaaca cttgtctgaa aactgcaaga 120  
aagaactcga atcaataaac aggcagtatc catttgaacc tctgaagtat ctagacaaaa 180

ccttgaagct cacttatgaa gaaggaattc aaatgttgaa ggaagccgga acagaaatcg 240  
 agcctatggg tgacctcaat accgaagctg agaaaaaact tggctgggctt gtcagggaaa 300  
 agtatgacac agatTTTT 318

<210> 43147  
 <211> 207  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B11

<400> 43147

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 ttgtttctga gtgcagtgtt gttgctagca cctgacagta atgaataacc tgctgctaca 180  
 taaaggatac tgттаattgt tgtcaaa 207

<210> 43148  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D12

<400> 43148

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 attatgatcc acagaaggac aagcgtttca gtggctctgt taagttgccc catatccctc 120  
 gtcccaagat gaagggtgtc atgcttggtg atgccagca tgttgaggag gccgagaaga 180  
 tgggacttga ctacatggat gttgaggctc tcaagaaaat gaacaagaac aagaagcttg 240  
 ttaagaggct tgccaagaag taccatgctt 270

<210> 43149  
 <211> 239  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G3

<400> 43149

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aaattgactt tcatatTTTT aaaatgtgat accggggcca gaaatgcttc ccctagctga 120  
ccgggaacga gaaattggcc gaggaaccag acttttcggt cggtaattcg aaccatggat 180  
aggagtgacc aagatgcgtg tgtgccgcca cgatatcaact catgcagtcg aagcagtac 239

<210> 43150  
<211> 243  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H1

<400> 43150

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atgtatatgc gcgcattgat gctagcagac atctttccta aaaaaaattt aaataatttc 120  
catctcgcat tatttttagta gctaccattc atgttttctg agtagttgta taaatgctac 180  
caccgtcatc ttttgtaccc ggccggaaca aacgaaaaac acactatcta tgctgtgttg 240  
tga 243

<210> 43151  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H8

<400> 43151

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ccttgctgag cgtgggccta gtgggcctgc tectctgcca cctcgccacc accgccttcg 120  
cccaccagaa agacatccac gtcctcgga ggcgcgacgg ctccagcgac ggcagcagcc 180  
ccgagtccga aggccgcgtc gtctacgagg acatgaagct ggctgatagc gaatccgatg 240  
cgccggcgcc ggccggcgcg ccggggg 266

<210> 43152  
<211> 85  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3075-045-Q1-K1-D11

<400> 43152

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cctaacttca actcattgct ccgcc 85

<210> 43153

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-045-Q1-K1-G10

<400> 43153

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cggttcacg atcaccaaca ccgtcattgg cgggggggac tactgcaggg gcatgggggc 120

cagaaccatc aaggggaaca tcaccggcga gacctgcggc cctggccacg ggagcagcat 180

cggcagccta aggcgggaca aggacgagaa ggacgccacg gacaacaacg tcaaagatgg 240

cactctgaag aagacgacga tcggcgggccg catcaaggcg tacgaggacg ccgcctacga 300

gctcaccggc ggcaagatcc actacgagaa aatcaagaag gaagactcag ccaacccc 358

<210> 43154

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G7

<400> 43154

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ccttcattctt aagttgttgg cggatccctt cgtcttgttt cggttgcacc ccgtgatggg 120

atggattggg tgctgaccaa aaaaaaata aaaaaaaat aaaa 164

<210> 43155

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H6

<400> 43155

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cccgccacca tgattaccgc agttcgactg gaatcaacag caatatatga tgtagtgatg 120  
gtcttcggtg cacgggggtct gtacctaggg ttgattcgtg cagcaggaag tcctggcgaa 180  
caacggacct tcatcgccgg gcatcggtcg ccgcagaacc gcgcaacttc gggggcagcc 240  
tgtctgcct atcgattgga gcgcgaggtc gcgtgtcatc tgaaaagcaa gttggtacct 300  
ggaatctcaa gtgccaggca agttatgcc ttgatcactt cttttaccca ctcattgttct 360  
aattaatcat aatgatctgg atacggtaat tttgatg 397

<210> 43156

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B4

<400> 43156

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gattttggtg gaggggaagaa gaaggaggga aagggggagg attcaagggtg gtagacttcc 120  
ggatcgtact tagggatttg cccgaacttc cggtaaaggt acttgataca tgttggggaat 180  
gaggggagta gcagcacgtc cactctcact ctcacaatag ctctgccgag gtgcagccat 240  
gatttaatta gaaatttatt gtcaaaggaa gtttgatttt ttaactagtc gtgcgcacta 300  
gttaattcag ttcattgctg atgtttaact tctctttgct agccgattaa tagtacttag 360  
tatgttcttg tcatga 376

<210> 43157

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C2

<400> 43157

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tgggggctga ccgtaagca ggaagagcca aaggccatgg attcgaaagc ttctactcct 120  
 ggagctttat tctacatgat ctcgataaca tcacggcca atagctagac agacagcacg 180  
 taagctgtgc accgaggcac gtccatcggc gttcga 216

<210> 43158  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C5

<400> 43158

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 tatcaaacac gaatgtttta tcgctccttg ccctgtttta tcagggatgc cactgtacat 120  
 ggttaaataa tagggtagtt tctcaaggca tacggagtta tgtataggaa ctggtgtacc 180  
 ctataactta caacggtgag gagcttcttg tcttgccgat gtcgcatga gatgcagctg 240  
 cggcgaacga ggggtgcatgt gttggtacac gcgaagagcg agcataggag tgcgatgaca 300  
 cggtatgaca ggatgatgaa accagatgtg ccgatgctgg tattgtacca tctgc 355

<210> 43159  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C7

<400> 43159

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 gagagaaaga tggagatgat caagaggatc ctcacgcgcg cgctcctcgt agtctgcgtc 180  
 tcggccacct cagtgtggc ctccaccgag gccgccgtcg ccggtgcccc agccgtctcc 240  
 gagtcgtcgg cgtccgccga agccctcgtc gccgccgccg gtgccggcgc cggcaccgtc 300  
 accgccgctg tgccctccgt cagcggttcc 330

<210> 43160  
 <211> 390  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E8

<400> 43160

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tgtcgtgcat ggcgagaagg ctaagtcaaa ggacaacgat gcaaaagcgt gcggtcccgg 120  
tggttccttc gacatcacca agtcggtcgc ctteggcaat ggcaagacgg atagcacgaa 180  
ggctgtgcat gaggcgtggg catcagcgtg cggagacacc ggtaagcaga cgatcctcat 240  
actcaagggc gacttcctcg tcggaccact caacttcaca ggcccatgca agggcgacgt 300  
gaccatccac gtgaatggca atctgctggc gaccacggac ctatgccagt acatggatca 360  
tggttaattgg atcgagattc tacgctgga 390

<210> 43161

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F6

<400> 43161

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atgcgctgaa gatcgttggt gcccgccatg cttcccgatg attgctgcca catcgtcgct 120  
gaggaaattt caagccccat agctgcacat atactcgact tctactacgg cgacgacggc 180  
ctgggcgatg acctctttgc cgcggtgact gccacctctg gccattccc tgccactgac 240  
gatgatgttt cttcgtctac cgctaccacc cctcctatct gcggctacag tgaagacacc 300  
gcagctgctg gtggagccac agcctacacc ccgttgacat ctttcgacac cacttcaca 360  
gccctcctgg aggaagagca gcaccatggg cctgaacccc gggtccttcc gcaaatcgat 420  
ggcctatcag aggtagcagc at 442

<210> 43162

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-046-Q1-K1-F8

<400> 43162

tgaattcccg ggtcgacca ctggtccggt gagatggatc atctgatttt agtgacgcat 60

ctgactgcta ttgcccacca catcttgggg acaataacac tgttgtaata acagggattg 120

cattatctga cctgagagag ttgcatagat cttacaatga agagaactac ttacctatga 180

ctctaattgat ggaggtctgt gacctgacct caaaaaatct gataggatcg aatcaattga 240

agcgagcata tcaacaatgc tagcatatgg acatgatgtc tgtcaacctg tacctcacac 300

atacgtcggg cacgttaatc gtgaaacggg gaagcgagtg tctttcatcg atccaaatga 360

cgaatatgtt gtcagtgagt cagactgcag tctgatctnt attaggatac agg 413

<210> 43163

<211> 219

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-046-Q1-K1-G11

<400> 43163

ttccggtcga cccacgcgtt cgggcgcac cgcgcgttcc ttggggacga tgcttcatcg 60

cgatgtggtg ngaggcgggtg agggcgcggg tggtcgcgac ggcgcggccc gcgttctctc 120

gggcggcggg ggcggaaaaa aacttccgcg ccgtgggtggg gccgcgtttc ggtgggcccg 180

aggtgctcga ggtcangcaa ggcattgcctg tgccccatc 219

<210> 43164

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H7

<400> 43164

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ttctggtctg caagcgttgg tctgaaggca tacggggggg gtggcactga ttctcttggc 120

aggatcctta tctcaacaca gctataaac tctgagacac atacttggac acctcttctc 180

agcatgaata aggcacggaa aaattgctct ggcttgttca tggatggcaa attttacgta 240

attgtcagag tgacaaacaa catcatggca ttgacctgcg gtgaagtgtg cgatgcgcat 300  
aacaagactt gtatggtgat cgataacatg 330

<210> 43165  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C1

<400> 43165

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tgcaaaagat gtcgcaaaag attggaatgc tgtgtttgaa aggagcatca atacattggt 120  
tttgactgaa atgggtccgtg gcttgatgct aactctcaag tacttctttg atagaaatgt 180  
cacaattaac tatccgtttg agaaggggtcc tctgagcccc cgcttccgtg gtgagcatgc 240  
tctcagacgt tatgaatctg gggaagagcg ctgcattgct tgtaaactat gcgaagctat 300  
atgccagcg caggcaatta caattgatgc tgaagaacgt gaagatggca gtcgccgaac 360  
cacaggatat gatattgaca tgaccaaagc catttactgt gggttc 406

<210> 43166  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C3

<400> 43166

gttgaatcct gtacaatcaa gttccatttt tggatttaag cgattgttta tgcttttcgc 60  
agttaggcag caccgattgg aggtccatct cctgctgaga tgcttgtttt tctctttggt 120  
gttcaaacac tttaacacca aataagcaac tgcagtgaca ttaatttttg ctgcacccaa 180  
gttacatgaa ctgaagaaac ttgtggcctg tgtgacgcgg atccatcaga acataaagtt 240  
acggcttctg gttggtaaata tatgct 266

<210> 43167  
<211> 437  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-047-Q1-K1-C9

<400> 43167

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tggctgggct aataggtgtc ctggtggggc tctgatgag cctcatcttc tcttcgccgc 120  
cggttgatgc ataagatgcg agaaaaaggt tgcagcctat ggaagcatta attgttcaga 180  
ccgacatggg gagaaagctc gctcgggaaa agaagaagat gaaacttttg tcgtagtagt 240  
ctccattttc attcttttgt tgcttgcacc gtagttatat gaaacgatga taacggggtg 300  
cagatctttg atctttccac ccgtgcttgg ttcanaaaaa aaaaattaag ataagaataa 360  
taatatataa acggggcggc cgctcgttat gttccaaact tacgtgcgcg tgcattgcgc 420  
ttaatatattc ttttata 437

<210> 43168  
<211> 106  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F5

<400> 43168

cggctctctgg aattcccggg tacgactcca cgctgtctcg tgaaccacgc agtctgtca 60  
atataaagct cagcacatct caaatacgaa ccttgagaga ctctca 106

<210> 43169  
<211> 380  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-047-Q1-K1-G1

<400> 43169

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aggagcgaga tggagatgaa gaggatcctc ttcgccgtcc tcgtcgtcat cgccgcctcg 120  
gccaccgcag tgctggcctc caccgaggcc gccgccgcgg gcgccccaac tgcctccgag 180  
tcgtccgccg aggctcccgc tggcgctggc gctggcgctg ccgctggcgc cgcgcgctcg 240

gggccctccg tcagcagcgg cgcgcccgtc ctgcgcgtcg ggcccgtcgc gctcctcttc 300  
 tccctcctcg cctactacct ccactaagcg tgtgcgtgcg tacgtacgcg cgcattggacg 360  
 acgatggatc cgttcacgct 380

<210> 43170  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-047-Q1-K1-G2  
 <400> 43170

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 aattttgaca gagtagatcc agcaccatct gttcattgaa cttgtgagct cgatggatgg 120  
 gtttttctgc agtttagcggg gtttagttaa gttcgaagga taatgcagta gacaacgttg 180  
 gtcacgtgtg gtggtgaggt tccaagtaag agagagcadc aactcacgt aacaggaatg 240  
 atcattgatg gattgaggcg ccttaattga aattggtgcc ttccacctca tggatgcagg 300  
 ttaattcttt tcttcgttga ttttttgacc cctcttgctt tgctcttctg tcaataagga 360  
 catacacagg ttaaaattca aattctttgc tcttagttgt tgcacattga ttgtcctatc 420  
 actattatgt tgatgc 436

<210> 43171  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-047-Q1-K1-G6  
 <400> 43171

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 gaattgagag ttgttgaact acaacatgcg ctcaaaaacc tcttagcccc ttcccctgag 120  
 cccgaacaac gccgagggcg tgatacattg gcggcgacaa cctctctttc tctcactacc 180  
 tctgacctat ctgcatgcat caagcgggat gctcatgggt ttcacacgt gaccatgggt 240  
 tgagggaat ggatggaggg gcctcgagtt ttatactccc agaccacgtg gatcaggatt 300  
 taaccggtga tcgatctccg atgattgagg gacgcttagg tgcgattcgg atcgagatcg 360



acttcaggta gaggaaggtc ctggcggtg gggcccaata gcagatgcgt gcgtgacgcg 420  
tgtgagggca gtctga 436

<210> 43172  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H7

<400> 43172

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agctatatct gaaagatggc tggatggggc tcttggtaaa tcagctgccc ctgacgaaga 120  
gatacaaagt acaagcgttg taaagggtgaa acgttctaaa gaagaatgtg gccacataat 180  
ccatgagtat tttctctcag atgaagtccc agaacttatt cgaagccttg aatagctttc 240  
tgttccagaa ttcaatccca ttttccttaa gaagcttggtg acgcttgcta tggatagaaa 300  
gagcagacat aacgagatgg actcagttct cctttcttca ttgagattag aattgctttc 360  
aactgatgac atcattgaag gtttctgtat gcttttgcag tcagcacaag acactgtact 420  
tgacattgcc gatg 434

<210> 43173  
<211> 443  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-A1

<400> 43173

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agagactaga aaaaacatct ccgactatgt catcgctggc gttcggcgac ttcggtccgc 120  
tcaccgagcg ccgccgcgt gagaaggcgc ggcagcagcg caggcgcatc atgatcgccg 180  
tcgggactgt ctccataatc gccatactca tcgtcattgg ctggtacgcg gtcatgaaca 240  
gcgggaagaa gtcgtccagc gacggtgacc acaaccacaa gtcttcgtcg tcgcgggcca 300  
aaggcaagtc cagcggcgga tcggactcgg aagcggaagc ggaaacggaa acggaatcgg 360  
ggtcggattc gaagacggat ctgaaggctg tgncaagag catcaaagcg atgtgctcgc 420

agacagacta cacggacgcg tgc

443

<210> 43174

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A12

<400> 43174

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tcccgttatt actacgacta acaaccgaga ggggcaactg gggtcattcta caagacgtac 120

tgccagccaa ctgcacacca cacgcactgt acacttccca cttaccatta tactatactt 180

cgaactccct tccattcatc ctactctgtg gcctatgaac cttacggacc cagctaacta 240

agcttatctc tatcgcatga ctaagcatgc accggtaacc acatatacta ctgacacttc 300

tgacacctag tctatgtcat gctttcgtac tactttaaga ggcaattcta atcatgtatg 360

cc 362

<210> 43175

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-A2

<400> 43175

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aatcagactt gcttctggtg acgccagaaa ttgtcaagaa gacatactgt ttgaagatca 120

ggcaagagct gatgcatcgc cttccagctg tgacgagtcg agtggtgtag caagccttaa 180

aattcagatt tctctgttga atataagact gagggcactt gaagaggatc aggagttcct 240

caatcaggta ttgagttcgc tccaatgtgg tagtgatggg ctgcagtgta tacaggagat 300

aagcaggcac ttagcagagt tgcgaagagt tgtggctcac taaaatgaaa atggttttgc 360

cccagattca cactttnttg ccgtcatgag gttctccttt gtaacggcaa acctatttgc 420

agtcacttag atagcaggc 439

<210> 43176  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-A3  
  
 <400> 43176  
  
 atcgcccgca ccaacacgca ttgctgtcga ccgcaacggc agtgtgaaga atgcttccgt 60  
 cgctagggcc aacttgacat ctctcggcc atcagagatc atctctgcc a gggacagcaa 120  
 ttcgacgacc cagcaagaag tgaaggcgct cctctctcag atgtcatctg tacggggcct 180  
 cgatggttct tccagtgaag gatctcctag ccccggtacc agcgctccga acgaagagag 240  
 caaccctgcg actgcgagca agaggccgta tctcgagagg aactactccg tgctggaacc 300  
 ttcagaaggg agccagctcg ccgacgacgt ggaatgggaa agctctctcg agaacgtgaa 360  
 gaaacagctt gagatcaaca agaaggcgat ggccgctctt tacaaggagc ttgagggaga 420  
 acggagcgct ttcgcggtcg 440

<210> 43177  
 <211> 326  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-A4  
  
 <400> 43177  
  
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 ttccgggtgc gggaggcaac cggggaagaa ctctaccatc tccaatgttc tctctggata 120  
 gcggatccac aatggttctt ccagaacctt gggcaggctc taattgatat atgctgagtc 180  
 aggcgacgcc aatgctgtta acaaaatagt ctactagaac ccattcgatg ctcttatgca 240  
 cttt gatgct gctgcttatg ttgaacagag cactgtgat ccactcaggc tctaccacac 300  
 cgtaacgctt aacacgttgg cagttc 326

<210> 43178  
 <211> 219  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A6

<400> 43178

cgggttgacc cacgcgtacg ccctgaccgg cgacggctgc caccgcgacg gtgatgatgt 60  
ggctcgcgac gttcgcgatg gcgtcgtaca agctgaaggc ggcgggcgtgg acgccgggtct 120  
ggcaccaccg gtaggtggcc gcgtccctcg cgcaggccgc cgacgcctgg ctcaggctcc 180  
tgcgcgccaa ccaccggac caattctact tcggggccc 219

<210> 43179

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-A7

<400> 43179

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ttgaccgccc ggctgtgtcg atgcgccgag gggtcagggt catgganggg aagggtgatc 120  
acatcgccgt gattgtgggc accgtgaccg acgacaagag gatcagcgag gtgccggcga 180  
tgaaggctcg cgcgctcagg ttactgaga cagcgagggc caggatcatc aatgctggcg 240  
gagagtgcct cacctttgac cagctcgcgc tccgtgcccc acttgggcaa aacacggttc 300  
tgctgagggg tctaagaac gctaggaag ctgtcaggca ctttgggcct gcaccaggag 360  
tgccttacag ccacaccaag ctttatgttc gtcgaaagg taggaagctt gataaggcga 420  
gaggaaggaa gaacagcatg ggctttaagg tctaagtg 458

<210> 43180

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A8

<400> 43180

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tctgaccggg caaagatgtc gtggcaggcg tacgtggacg agcacctgat gtgcgagatc 120  
gagggccacc acctcgcggc ggcgcccatc gtcggccacg acggtgccgc ctgggcgcag 180

agcacggcgt tccccgagtt caagaccgag gacatggcca acatcatgaa ggacttcgac 240  
gagccagggc acctcgcgcc gacaggcctg ttcctcggac ctaccaagta catggtcac 300  
caaggcgagc ctggtgccgt catccgtggc aagaagggat caggaggcat caccgtgaag 360  
aagacagggc aggcactcgt cgttggcatc tacgacgagc cgatgacgcc tgtgcagt 418

<210> 43181  
<211> 416  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-048-Q1-K1-B1

<400> 43181

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tcactatgct catgggatcc tagcaagaga ccaaagnaca gaatcctcca gcataccttc 120  
ttcagggttg tacatgtgtt ccgcttcctg tccgtcggaa agcttcacatg cttcctaaaa 180  
cacctccatg tgttggatca aagagaattt ccgagaacag cgttgctaga agattctcga 240  
ccgggactct atctacgatg aaatctcata gcaatgcacc tgcaaaatca aacggtttat 300  
ctaggactgg tgtacaaaga aaacttcact tggatcgta gccaccgcag aagagtacaa 360  
aaccgaccga taacagcaat atgctagcta caaatcgggt cccagcccgg aacagc 416

<210> 43182  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-B2

<400> 43182

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catgaggggtg gaatgggacg cgcttagcta attaattaga agaacctggg ggtgtagttg 120  
gctttgccgg aagggccatc aatgagggc gggcgcgtag tgctcgctct actaagggtg 180  
ggtgcagagg ttcaattgat ttggttttgt tagtcaccta ccttggggag gtgtactgcg 240  
tttgtacgac tggcgaaacc taacagcag ctatgcacca ggggagtcctt tgtaaaggct 300

atgtagttgt tgggggcttt cgtcttctga aggtcctcaa aaacatgatt aacaatgttt 360  
 tcccaagtgt aatatatata tacaggagcc ttcggaatcg gaatgaagtt gtccacaata 420  
 cgaaaagcat ggttggtacg aaggtcataa cca 453

<210> 43183  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-048-Q1-K1-B3

<400> 43183

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 gccgacgcgg gaggagagcg tgtacatggc caagcttgcg gagcaggcgg agcgggtacga 180  
 ggagatggtc gagttcatgg agcgcgtcgc gcgctacgcc gggggcgccg gcggcgggga 240  
 ggagctctcg gtggaggagc gcaacctgct gtccgtcgcc tacaagaacg tcatcggcgc 300  
 ccgcagggcc tcgtggcgga tcatctctc catcgagcag aaggaggaag gccgcgggaa 360  
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 catctgcgac ggcatactcg cgctc 445

<210> 43184  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-B4

<400> 43184

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 gggcgaggat ctggacagtc tggacttcga cgagctgcgc ggctctgagc aaaacgtcga 120  
 cgcggtctc aaggaggttc gccataggaa gtaccatgtg atcagcacgc agaccgatac 180  
 ctacaagaaa aaggtgaagc actctcacga ggcgtacaag aacctgcagc aggagctagg 240  
 catgcgggag gacccggcgt tcgggtacgt ggacaacacg ggcgccggcg tcgcctggga 300  
 cggcgcgggc gcggcgctgg gcggcgcccc gccggacatg tacgccttcc gcgtggtgcc 360

cagccagccc aacctgcacg gcatggccta cggcttccac gacctccgcc tgggctagcg 420  
catccatcac catgc 435

<210> 43185  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-B5

<400> 43185

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ggaagactgg agtcaaagtg gagaaccaga aaatgatgct agggacattc agtccccagc 180  
aagagccgta cgtttacgag ggtgaagaag agaccacacc tgctggcatc ttgcgaagag 240  
gttcctattc tgctaagcta aagttttttg atgatgatgg caagtgttat ttggagacga 300  
gttactactt tgagattaga aaagagtggc cagggccagc aacctaataa tatatggagc 360  
ggcgggtgtg gattcgtaa acacatacat gttagaactc ttagttaaga caagcagaag 420  
atctattata ttcta 435

<210> 43186  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-B6

<400> 43186

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gtgacctcct ctaccaccac ctctcccctt ccacctcggc tgccatcgcc gccttcagat 120  
ccgcctcca gcccgggctc gctccccaag ggttgtttg agcggatggc gcaagatgca 180  
tgtctgcgat ggcgccggcg gtcaaggggt ccgggcatct cgtccgcatg ggcaccggag 240  
ggaggtcttc tgtgagtgga atcgtagcca ccgtgttttg agctactggg tttcttgggc 300  
gctatcttgt gcaacaactt gccaaagtgg cgtctcaagt gctctgcca ttcagagcgt 360  
gtgaggattc tctcgtcac ctgaagacta tgggtgact 399

<210> 43187  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-B7  
  
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 agagtcttgc gagacacatc tatggattga gagggaggaa tatcgatgtt tttgcagaga 180  
 atagcagctt agccatcaat cctcgctacg tccggctctg gttggatctt ttgtcacgga 240  
 caccacgagt cgcacctttt ctacagaaga atgatccctt catagcagcg ctgaaaaagg 300  
 aactgtccga gcacacgtct gatgtgcatg ttcaaagtga tgcgcttgaa ggcattgttca 360  
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 atct 424

<210> 43188  
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 <223> unsure at all n locations  
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 cgttggagat ggctgcggtt ggggcaggga ccgggagcga ggtgatagaa gctgggcgcg 180  
 tcgcggagct tgatcctgct cgacgcggtc ggggaggagc agctgctgga cgccgataag 240  
 tacgccatca tgcgccgcgt ttacatcaac gcgcgcgacc tccgcctcct cgacccttg 300  
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 tataa 365

<210> 43189



<211> 441  
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 <213> Zea mays  
  
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 cctcaagcgc tccggcaaga tggagctccc tgagtgggtt gacattgtga agactgcgag 180  
 gttcaaggag cttcctcctt atgacacctga ctggtactac atcagggctg catccattgc 240  
 aaggaagatc tacctaaggc aaggcatcgg tgtgggtggc tttcagaaga tctacgggtg 300  
 ccgccagagg aatggctccc gccaccaca cttctgcaag agcagtgggtg ctgttgacag 360  
 caacatcctg cagcagctgc agattatggg catcatcgat gtcgatccca aggggtggacg 420  
 cctcatcacc aaccagggga g 441

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 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-C10  
  
 <400> 43190  
  
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 ctgcttcctg ccttgtgatt atctggtgtg tgtgtgtgtg tgtgactgac taagtgcggy 180  
 cgattaggta actcgcttag aacgtatttc ccgtgtttga gcaaaagaaa gtatccctgt 240  
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 acttgaatgg aaaagtatgc ttcccattta aaaaacacag acctaatcct gtactaggac 360  
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 cttgac 426

<210> 43191  
 <211> 464  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C12

<400> 43191

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atgtcgaggg aggagaatgt ttacatggcc aagttggctg atcaggctga aaggtatgag 180
gagatgggtg agtatatgga gaaggtggct aagactgtag atgtggaaga gctcactgtt 240
gaggagcgta accttctgtc tgttgcatatc aagaatgtga ttggggctcg cctcgcttga 300
tgggcgattg attctttcat tgaacaaaag gacgagtgcc gtaagaacga agagcatgtg 360
aaccttatca aggaatatcg cgtcatgac gacgctgaac tgatcaattt ctgggacgct 420
tcttgaagct gcttgacttc cacttattgc cttcttatac tgct 464
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<210> 43192

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C2

<400> 43192

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acagactctg tctcccagca agacttgatt gacttgggta gagctgggtc tggtagctgt 180
ttgcttgctg gtttgctgt atggcttgtt gcttacacag ctcacctggt acggtttata 240
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cagttcctta tagaaataaa catggattct gagaagaatg atgctgaggt tcaggcagag 360
ggagtactaa attcaagatt acagcaaata gtgcatacac ttgacaaggt gagatatgtt 420
atgagatgca tatttgag 439
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<210> 43193

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C3

<400> 43193

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tggcggatgc cggattcttg cagcatcatt atgtgaggat gaatgcatgc gtagttatac 180  
ggctataccc ttcttgcttg ccttcatgag caactgaccg attcttttgt ttaggcggtc 240  
tgtttttcta gaatggatgt atgtaccttc cgtgtgcgtg tgggttcttg taaatgggtga 300  
aagttgggtg tgattacttg tagctcacag ttacatattg aggggggtact cagggcccgt 360  
ttggatacat ctagctaaat tttttaggcc ccatgtttga atactagtta gaaacattaa 420  
atatagtcta aaactaatta caca 444

<210> 43194

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C4

<400> 43194

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gaggaggaga taattaatgg cggctaagga gagtagtagg acgatggcgg cggcgcgcctc 180  
tgcggaagg atcggggtcg tggcctctgt ggcgatgaac ctgcgtggc ttgcgatgta 240  
catccgccag cgctacgggg agatcaccac ggtggaggcg tcccagggca agccgccggg 300  
cactcaggac tccgtcgtca tcctcgatca cggcgaccg gtcatgtacg aggagttctg 360  
gcgccgcgag ggagacagcg cctcgatcct gatcccc 397

<210> 43195

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-C5

<400> 43195

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 ctccaagcac ttgtgctcca tcgtggacgc ccgacgtctc ctgcgcaccg gccacctgct 180  
 tcctctccgc ctgcagcgtt tctactgcat cagcctggcc tcggtcgata gggagacata 240  
 tcttttcgca cggccatcgg tagcgcgtcg gatccccggc gcctgccttg acttcagggt 300  
 agatcttgag gttgtggatc actgcaacgg tctactgttg ctgtgtgaca tggttttcag 360  
 gttgctgaac cctgccacac ggcaatcggc agccctgcct aaagccccgg atccatccat 420  
 tgagaacatg cttgggggtcg ccacagtttg ggccggg 457

<210> 43196  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C6

<400> 43196

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 gcgaagaata agaaaaaggc gcagaggggg gcgtgctcca ttttgtgata taataatgat 180  
 cagtagacaa aagaaacaag ggccaaagtg ccatgggtct attatatccg cgtcttgctg 240  
 taacggaaca accatggatg ataccacccc ctctccccta tatattactg tgggggtgtga 300  
 agagatctag gggttttaga gagatatatg tgtgttatat tcctcccttc cgccccgtga 360  
 gaatatcgcg tgtgtgtgtg ac 382

<210> 43197  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C7

<400> 43197

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attcttctat taattacatc catcacattt tttttttcaa taaattccca tattatttaa 180  
catttttacc acttttttaa attgggcatt caatgatttt cataacttca tgattaacac 240  
acctattcta aatatattac atattctttt actat 275

<210> 43198  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C8

<400> 43198

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ttcccatcct ccttatctcc accgcgcgcc cgtgcgggc catcacggac gccgcggcg 180  
gccccggata cctccaggag gcgtgcaaca agacgctgtt cccaagggtg tgcatgcacg 240  
cgctcaagga caaccatag tgccaggcgg agacggcggt cccccgcgc cggctggccg 300  
agctgctcgt gtacgtgtcg gccgaagtgg gcatgaccgt ggccgcgttc ggcgaccacg 360  
agctcaacgc catcaaggac gacgacgtcc tgtacaagtg catcgacac 409

<210> 43199  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-D1

<400> 43199

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ccagacaagc accgcggcgc gggcgccctg gtccgcgcg cgcagctcgt cctgtcgcg 180  
gaggtcgggt ggtgcgggca gcgcgctgg cggaagctgc tcaggcggct ggcgcaggag 240  
accaggtgcg tgtgcagctc cccgacggcg gcggccacgg gtcggcccat cacgttcggc 300  
tacgacgccg ccagctacgc caagaacttc gacgacgggc gcagncccgc gccgcgccgc 360

gtcgtcgtcg ggcgcaatgc gggcgataaa ccgagcggca acaactgacc accccatcga 420  
cgttct 426

<210> 43200  
<211> 308  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D2

<400> 43200

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ccttcgtcta gagactctat ccttcacgcc acgcctacta cagccccac cgacttctac 180  
tatgcctcca tgcagtacac caagtaccct gagcttttcg tcaagtactc atcctcctcg 240  
gcgccgaaag caaatgcgaa tgctgatcgg agaaaacaaa ctgcactggg cggactagca 300  
ctatccca 308

<210> 43201  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D3

<400> 43201

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cctggtgctc cgtctcaggg gtggcatgca gatctttgtg aagacactca ctggcaagac 180  
aatcaccctt gaggtggagt cttcggatac cattgacaat gtcaaggcca agatccagga 240  
caaggagggc atcccaccgg accagcagcg cctcatcttc gccggcaagc agctggagga 300  
tggccgcacc ctggcgggact acaacatcca gaaggagagc accctccacc tgggtgctccg 360  
cctcaggggt ggcattgcaga tttttgtgaa gacattgact ggcaagacca tcaccttgga 420  
ggtggagagc tctgacacca tt 442

<210> 43202

<211> 257  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-D4  
  
 <400> 43202  
  
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 ttcaatgttg catcttatgc tccatacttc aatgttgata ctgatgttgt agttgacagg 180  
 ctcattagtt cagtttatcc aatggatgtt ttacaggaa aatgatgcta tcctgacatg 240  
 tatgggcctt tgtggat 257

<210> 43203  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-D5  
  
 <400> 43203  
  
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 ttacactttg atcatccgtc ccgatgcaac atacagcatt ctcatcgata atgaagagaa 180  
 gcaaactggc agcatctatg agcactggga tattcttccc cctaagcaaa tcaaggaccc 240  
 agaggctaag aagcctgagg actgggatga caaggaatac attcctgacc ctgaggacaa 300  
 gaagccagag ggctatgatg atattcccaa ggaaattcct gaccctgatg ctaagaagcc 360  
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 atacaa 426

<210> 43204  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 43204

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 gcgcgctgct ggtgatcgcc ttcttggcgg cgcagctggt ggcgacgtgc atcgccgtgt 180  
 acgccaaactg ggagttctgc aagatgcagg gcatcggctg gggctggggg ggcgccatct 240  
 gggcgttcag cgtcgtcacc tacttcccgc tggacgtgct caagttcgcc atccgctacg 300  
 cgctctccgg catggcctgg aacaacatca acaacaagac ggccttcacc aaccgcaccg 360  
 actacngcaa gggcgagcga gaagcgcaat gggccacggc acatatgacg c 411

<210> 43205  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D7

<400> 43205

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 gtgagccacg ccgccacgag ccaccacgag cacggcgggc agctcagcga tctggagtgc 180  
 gatctggtgg ggcggcagaa gactggctgc tcgtcgtcgc cggcgggaac aacgccggct 240  
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 ttttcatcaa caagtgggtc ccaaagaag aactgaaaca tcaagatggt gtttgcttct 360  
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<210> 43206  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D8

<400> 43206

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tgctctcgca ccccggtccc ggaggtgtgc acgtccaccg ccggggcggca cgcgccaag 180  
 tacccggtca tgcacaacct ggccgtgctg aacatgcagg tggacgcgtt cgccaagcgc 240  
 accgcgcagg cgcgcaagca cgtcgcgagg tcggcccgcga ccatcccgcc gcagcagacg 300  
 caggcgctca cgttctcgca caccatgtac atgaacacgc aggacaccat cggcgcgggc 360  
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<210> 43207  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E1

<400> 43207

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 tagccgcgtc cgccgtcgaa cgccgccgct cgtccgctcc ttcgctcggc cagaagggag 180  
 gaagacagaa gggatactag gggttctact ccggcggtag gtggggcagc tgccccaccg 240  
 tgccgcatgg ggagctccgc ctctgctggc ggatgaaatg atcctgcggc cttctcttct 300  
 ggccgtcgcc cgccctctca gcaccgtagc cgtcgcggcg gccgtccgcc gcgggtgacct 360  
 cgccggcgcg gaggaagcct tcgcgtcgac gcagctcaag accacgacca cctacaactg 420  
 cttctcgcg ggatacgga agg 443

<210> 43208  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E2

<400> 43208

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 aaccgtatca caccctcatg ggttgccctc accgatagcg agaggctcat cggtgaggct 180  
 gccagaacc aggcagctgt caaccctgag aggaccatct ttgacgtcaa gcgtctcatc 240

ggaagaaagt ttcaggataa ggaagtccag agggacatga aacttgcccc ctacaagatt 300  
 attaacaagg atggcaagcc atacattcag gtcaagatca aggatgggga gaacaaggtc 360  
 ttcagccctg aggagatcag tgccatgatt cttggcaaga tgaaagatac t 411

<210> 43209  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-048-Q1-K1-E3

<400> 43209

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 cgccaacgag gtgccaaga ccgcggagaa cttccgcgcg ctgtgcacgg gcgagaaggg 180  
 cgtgggcaag tccgggaagc cgctccacta caagggtcc accttccacc gcgtcatccc 240  
 cgagttcatg tgccagggcg ggcacttcac ccgcggcaac ggcaaccggcg gcgagtccat 300  
 ctacggcgag aagttccccg acgagaagtt cgtgcgcaag cacaccgccc ncggtgtgct 360  
 ctccatggcc aacgccgggc ccaacaccaa cggctcccag ttcttcatct gcaccgtcgc 420  
 g 421

<210> 43210  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-048-Q1-K1-E4

<400> 43210

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 ctgtactcca actatgtccc ctatacctct actactacct tgcgctttgc acattctaga 180  
 acagcgttat caattcccgtagccaatcc actacatggt ctcacacctt taccccgctct 240  
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<210> 43211  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E5

<400> 43211

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acctccgctg ccatagtcgg ccacgacggc gccgtttggg cccagagcac cgcattccca 180  
cagttcaaga cagaggagat gaccaacatc atgaaggact tcgacgagcc cgggttcctt 240  
gccccgaccg gcctcttctt cggccccacc aagtacatgg tcatccaagg cgagcccggc 300  
gctgtcatcc gcgggaagaa gggatctgga ggcataactg tgaagaagac agggcaagcg 360  
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<210> 43212  
<211> 277  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E6

<400> 43212

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tcttgtttgg cttaaccgat agcgataggc tcattggtga ggggtggcacc aactagccac 180  
atgtcaacac tgagaggggc acctacagtc ttaagcgctt catcttgcca gagtttcatg 240  
attaggaagt ccacatggac atgcaacctt gcccctt 277

<210> 43213  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E7

<400> 43213

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accgcccagc aataatggcg catagcatga ggattgtggc gctggccctg gtggccctgc 180

tgggtgggtggc ggcggtcgcg cccgtggcca ccgcgtacgg ctgctacgac gactgctacg 240

agcgctgcgc caacggcaag aaagaccccg cctgcaccaa gatgttcata ccaggcgtgc 300

ggctccacgg atcagggcgc cggtgacgac aacgcctcgc cggtttgatc ctttagcaca 360

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<210> 43214

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E8

<400> 43214

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gcgcgccgtc atgctggcac agccgcacgg ctccagcagc ctcaaggatg tccaggtcgc 120

cttcagcaac gccgaccaca aggacagcag caccaagggtg gaacagccgg cggacagctc 180

cttgaagccg gcgagcctga acgcgttcga catcatctcc cactccagag ggttcgacct 240

gtcaagcctg ttcgaggtgg accaagagca gaaggccagc aactcgcggg tcatgacca 300

taaaccggcg tcggcgatag tgtcaaagct ggagcagatc gctgagacag agcgcttcat 360

ggtgaagaaa caggacgggc tgggtgaagct gcatgggtcc aagcaaggga agaaggggc 419

<210> 43215

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-F1

<400> 43215

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ggggccaatc cagggtgtgt tccagctgca ggatctgggt cccttgatgc cttgcgacag 120

cttccacagt ttcaagcact gcttcagttg gtccaggcta atcctcaa at cttgcagcca 180  
atgcttcaag aactaggcaa acaaaaccca caaatcctgc gtttgattca ggaaaatcaa 240  
gctgagtttg tccgcttggg gaacgaaact ccgagggggtg gtcctggagg aaacatatta 300  
gggtcaactgg cagctgctat gccgcaatcg gtgacagtta cccagagga acgagaggcc 360  
atccagcggc ttgagggaaat gggcttcaac cgtgagcttg tgctagaagt tttctttgca 420  
tgcaacaagg acgaagagc 439

<210> 43216  
<211> 308  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-048-Q1-K1-F12  
<400> 43216

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acttcactct actactgata tactccatcg taaaaacta tccactaacc aataacatgc 180  
atctaaaccg ttatcatcca ctccacgaac tgactcatat gcacgatcac aaactgtcgt 240  
aaacacagca ctattagccc tagaaccgt tacgggtacta cettcaacag caggtcctca 300  
aaggtgac 308

<210> 43217  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-048-Q1-K1-F2  
<400> 43217

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ctgctacgcg aataacagtc cctgaaatcc ggaatcatag ttggttcctg aagaaccttc 120  
ctgctgatct gatggatgat gatagcatga gcaaccaata tgaggagcct gaccagccaa 180  
tgagacccat ggatcagatc atgcagatgt taacagaggc caccatacca cctgcctgtt 240  
ctcgcagtat aaatgtccta gctgatggac tggacatgga cgacgacatg gatgatcttg 300

attccgactc agatcttgat gttgacagca gcggtgagat tgtgtacgca atgtgagtaa 360  
catctcagca gccatctcag cagtcaacca aggaaccaat catgcatggg atgccctggt 420  
gtataactctg gc 432

<210> 43218  
<211> 420  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-048-Q1-K1-F3  
<400> 43218

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gaagaagagg aaccactatg tggagggtgg tgatgccggt aaccgtgaga attacatcaa 120  
cgagctcatc aaaaggatga attaggttca cgaccaagct catttgtgttc taagaaactt 180  
tctgtgctct cccaatttta cattattagg aagtggatga atatgcatgc agttttgttg 240  
tttggaacta gatgtgtatg gaagaaatat gatctttttt cccggagggt tagaattata 300  
tatttagggc tagtttgga acttcatttt ccaagggatt tctattttgc ctaggaaaaa 360  
tgaactgngc ttcccaaact agcccatgat gcatttccca tctgtgtat cgggcctttt 420

<210> 43219  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-048-Q1-K1-F4  
<400> 43219

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atcgctataa tttttgctgg gctccggtaa atataaggga tccaaaagcc atgtaccatc 120  
ttttaagatt tgccaccaac tattctcata gccgtcgtgt tggcatcgca ttgggaatac 180  
caaggggttc tgcaaaaaat gacgctgagc ttctggacct tgagacaaaa catcaggtcc 240  
tatcaatgta tctatggttg tcacatcatt ttgaggaaga taactttcct catgtgcagc 300  
atgctgaaaa catggcaata aatattgctg atttacttgg caagtcgctt gcgaaagcat 360

gctggaagcc tgaatcaaga cagcaagtta gggggcgacg agaaggaaag gatgagtaca 420  
atgaggaaca agcatcaaat gaaa 444

<210> 43220  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-F5

<400> 43220

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tgggcatgctg tgcaacacaa gaggcttatc acatcccaaa cagcgacac gccacaccg 120  
ccgcacacga agatacaaga ctgttcatcc acgaaatcgt ctggccacgt acaatcaagg 180  
agatagatcg tgggaggaga gacgatgcac cgttcgctga gctactacct gcagcagtcg 240  
tcgtcatcgt cgtcgtgctg gtcacgtcgt gtagcggcga ccggcggggc ggcatcgccg 300  
gggccgagct cgacggcggg cgtgatggat gtggaccatc tgccgactta tgaccgcggg 360  
tcggacttgg ccaaaaagga tgccctggat g 391

<210> 43221  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-F6

<400> 43221

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ccgtccttgc ggcgctcgtc gccggcgggg cgtgcggggc ccgaagggtg ccaccgggcc 120  
ccaacatcac caccaactac aacggcaagt ggctcaccgc tagggccacc tggtagcgtc 180  
agcccaacgg tgccggcgct cctgacaacg gcggtgctg cgggatcaag aacgtgaacc 240  
tgccacccta cagcggcatg acggcgtgcg gcaacgtccc catcttcaag gacggcaagg 300  
gctgcggctc atgctacgag gtgagatgca aggaaaaacc tgagtgtcgt ggcaatccag 360  
tcacggtgta catcactgac atgaactacg agcctatcgc tccctaccac ttcgacttga 420  
gcg 423

<210> 43222  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-F7  
  
 <400> 43222  
  
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 cgtcgctg gtcctcgctg ccacggccat agccgccgct cccggcgctt ggtttgtcgt 120  
 caccggccgc atctactgcg acaactgccg cgccgggttc gagacaaacg tgtcccacgc 180  
 catccaaggc gcgacggtgg agatggagtg ccgccacttc gagtcgcagc aggtccacga 240  
 caaggcggag gcgaccacgg gccccggcgg ctggtacagg atggagatca gggcgaccca 300  
 ccaggacgag atctgcgacg tgcgcctgct caagagcccc gaggcggact ggcgcgagat 360  
 cgaccactcc cgcgaccgct gccgcgttcc gtcacccgc aacgacggca tcaagcagag 420  
 c 421

<210> 43223  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-F8  
  
 <400> 43223  
  
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 cgtgtgcctg ccgaccagcc cagaggcgctc aaggccgcgg ctattgacag ttaggtcggg 120  
 gtcggagcca gccgtcgagg cccgatgggc agcaggacga cgctgcccct attaataaag 180  
 ccgccatgcg tgtgcccggc actgcacaac atccatcgct catcgaccca cccaaccttc 240  
 tcctccgccc cgcgcttcgc ctgggtaccg gcgtccgccc cgccccgtac c 291

<210> 43224  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-G1



<400> 43224

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caaatggacc ggacctgagc gctctcggtc tctctcacgc gagcagtga tctttgagcc 120

accgccgccc tgaggagctc cgcccgcccg ccgtcatccg tcaaatcagg tggccatttg 180

gtacaggcgt cggactccca ggaggatgac cgggtggcaag aggttcggcg gggggcgggt 240

gccgacgggg accccgtccc tcgctgggtc gtccgtcgtc atcgtegcct cctcctcgc 300

tggcgctcc atcgteccaca acatctacaa gcctgacatg accattccac ctgtggaggg 360

tgccgccggc ggcgagcgag gacaacaaag atgagctacg aatggctgga cactgcatgc 420

aagagaggaa gctgggca 438

<210> 43225

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G10

<400> 43225

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tttgatcttc taagaaatga caatgtcatg ggcgctgtga agactttacg atgtgacatc 120

acacccttg gtgtgaatag aaaaagagt catgaactgt cgacttgat gatttcttgt 180

tctccacagc agttgttctt tgggttttca aaacttggca ttgattcttc tagttcaagg 240

tttaagcttc tagaggaatt gcaaaagggt ctccctccaa ctgttatggt gccagagagg 300

aggtagaaa atttagttga gcaagcactt actgtacaaa gagatgcttg ctacttccat 360

aattctgttg atgggttgtc actgtacatt gatcatcatt gcgggaaaga tcagctacca 420

tctcgcacgt tacatgtttt gcatgcacat catgatgaac tgtggtttgt ccaatttcaa 480

aca 483

<210> 43226

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G2

<400> 43226

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acatgtttgcg atggctgtgg cgttggtgtt cttggtgagc ggcgcattgg gcggtcctcc 120

caaagtcccc ccaggcaaga acatcacggc cacctatggc aaggactggg tggacgctaa 180

agcgacatgg tatggcaagc cgacgggtgc cgggtcccgac gacaacgggtg gcggtctgtg 240

gtacaaggac gtgaacaagc ccccttcaa tagcatgggc gcatgcggca acatcccat 300

cttcaaggat ggtctgggtt gtgggtcctg cttcgagatc aagtgcgata agcctgtgga 360

gtgctccggc aagccgtgg tgggtgcacat cacggacatg aactatgagc ctatcgggc 420

gtaccacttc gatttagcag gc 442

<210> 43227

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G3

<400> 43227

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cgtgccatac atcgtgtggc agcattccga tcaggttttg gtgccttggg gtggggattc 120

gggtgcctcc ggtgagggcc cactgtgggt cggggcgggtg ccgttgcttg gacggcttgt 180

ggaagaagtc aggtcctggt ggttggatcc gagatacacg atcgggatcg agccatgtca 240

taccgatcca gtgtttgcat ccggagcatt aatcttgtgg gcaatggctc agattggcca 300

tggccgtacc cgtttgccc ggtgcttgaa agccgttaga tctagatccg aggggtgaga 360

gcgtatatcc gacttaataa aactatggtc gttggatcgg gatccgaggg acccaaaccg 420

tgtaccgatt cgtttatatg tgatatgatc 450

<210> 43228

<211> 177

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-G4

<400> 43228

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tcaaataatt ttgtcacatt tcgtgcgggt cagaaattct ttcaacattg gaatggagcc 120  
aagaattgtc tgtaataatc aacatcagca ttataacagt atgtaggggt ttatctc 177

<210> 43229  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G5

<400> 43229

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cggcaccgac cgtctgtgcg gtcaaatctc cggcgagcac aacgaccaca aggaaacacg 120  
aagcagccaa agaagagacg gatgcgcctg ccaaggcacc agctgctgca gccaccgagg 180  
ggcctgctgc gggagcgccc atgacatggc cggatggcgg gcctgagtcc gtcaagatgg 240  
tcatcaagaa ccccttcttt aaaagcgcac ctccatctgg tagcgaagac ggcttaccca 300  
ttgacccac tccagaaggc agcatgaact aaattaaata ccaattacga gaccgaccag 360  
atatgcatgg agcatgcaag aatgttgctg aacgaatata tgctatgaat ggttacatgt 420  
act 423

<210> 43230  
<211> 332  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-G6

<400> 43230

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tgctgatcgt aagaagaaaa aggaaaaggg taaacttggc atgaaagaga gtctgaagggt 120  
tctgctctcc tcgaggtatg tgagggatct agctacccta gtggttgctt atggcattag 180  
tatcaatctt gtcgaagtca catggaaatc aaaactcaag gcacagttcc ctagtccaaa 240  
tgaatattca tctttcatgg gtgatttctc gactgcaact gggattgcaa ctttcacaat 300

gatgctgtta ggccgtatta tactacggaa at

332

<210> 43231

<211> 147

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-G7

<400> 43231

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tcattgagtat tttatctata gatgattttt cagtatgccc cacagtatta ccggtttta 120

aaatgatata ttaccttttt tatagtt 147

<210> 43232

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H1

<400> 43232

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tgcacgtgca ggtgctggcg gcgatggcgg tagcatttct ggtaggcggg gcctgggtgtg 120

gtctctcccaa ggttcccccg ggtaagaaca tcacagccaa ctatggtagt gattggctag 180

atgccaaaggc aacatggtat ggcaagccaa cagggtgccg cccggacgac aatggtggcg 240

gatgtgggta caaggacgtg aacaaggccc ctttcaacag catgggacga tgtggcaacg 300

tccccatctt caaggatggt ctaggttgtg gatcctgctt cgagatcaag tgcgacaagc 360

cagcggagtg ctctggcaag cccgtggtgg tgtacattac agacatgaac tacgagcc 418

<210> 43233

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H12

<400> 43233

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catcgagtcc tacaatcctt cagtatacgg taacataagt aaactagagg attgtaggat 120  
ggatgtggtg tcggttggtg agatagtgtc ctattggtct aatccgggag ggtacttttc 180  
agaaggaaac gacataagcc atttcggttc aaggatatgag atgcatgctt gaacccttgg 240  
tcttggaact ggggggaaca tattcttaat atggaattat tgtcgatctg gggaaaaaac 300  
aatcaagctc atgaaacca tg 322

<210> 43234  
<211> 326  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H2

<400> 43234

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ttgcaggcag tttgttaaatt gggatccatt ctgctttagt gcaatgtgca aggcaagttg 180  
ttttatagag ggaaaatcct tcgatgggtc ctatgtaaag gggcacagat gtgaatcaaa 240  
tggatatcac gctgtgtgtg tttggtttct gtgtaaaaat ttggtatcta atgacatgcg 300  
gatctatctt cttttgggtc tctctg 326

<210> 43235  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H3

<400> 43235

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gcttcagttt cttgactgtg tcttacacta ttttcctgat ggcatacact ctgcccatgt 120  
tgtatgagaa atacgaagat caagttgatg tcgtaggcga gaaggccctc attgagataa 180  
aaaagcagta caaagtgatt gatgcaaagt ttatctctaa gatcccaatg ttgtctgaga 240  
agaaacaaca ctgagagagg gtgctccaaa ggtctaattc agcacattac caatatatga 300  
aagtagttcc tttggctttg ctatatcatc atttagcaac ctttaagatg ataccataga 360

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372

<210> 43236  
<211> 226  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H4

<400> 43236

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atgttcattt atttctgggc acatacttga aaccacatgt tgccattctt gatggcatta 120  
ctatgagtgg tgggtgtacgg tttttcattc ctcgaacatt gcgggggtga actgatagga 180  
caggctttgt aacttcataa cttcatattg tacttcattc tgatgc 226

<210> 43237  
<211> 339  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-048-Q1-K1-H5

<400> 43237

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gataacaggc tgtaggaaac attaactttc acatgacatt gtatacccaa atgaccatt 120  
atcaaagatc aatgttgatg atgancctga agcttttttt tacgtgaaat aaagctgcc 180  
cgtgacatgg ccgacataaa taacgaacta tttatatacg gtttcaagcc catgacaaat 240  
tctgccaaac gacgagcatc tgcccacatc aatggcttaa aaccaaggc tatatccaat 300  
aataatcttc gagagatcac aaaaaggacc aagcttact 339

<210> 43238  
<211> 232  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H6

<400> 43238

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ggcagaaaact tgcaggccgc ttgttaaagt ggatccattc tgcttttagtg caatgtgcaa 120  
ggcaaggtgt tttatagagg gaaaatactc cgatgggttc tatgtgaagg cgcacagatg 180  
tcaatcaaat ggacatcacg ctctgcgtgt tcggtttctg cgtgaaaaat ta 232

<210> 43239  
<211> 176  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A2

<400> 43239

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agagaaggca ttaataacttg ttgctcaca tgcttaggtt gtgttcttta gtccagacaa 120  
gaaaacatgt taatccgcag ctgattaaga gcttcaactc ttgcaactac tctaaa 176

<210> 43240  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A3

<400> 43240

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gagtgaagg gtccaacatt tggtagcaga gctaggatgg agacgccgcc ggcaaaggat 120  
ggcctcaaga tggtcgacgg catgggctcg acgagtgccg cgatggagcg cgtcatcaac 180  
agcagctccg ttgagctccc gctgctgacc aaggcgaatt accacgagtg ggcgttggtt 240  
atgcaggtct cgctggaggc gatggaactg tgggacgcgg tggaggccgt gtgcaaagag 300  
cgttccaagg atcggcgggc aatggccgcc atcctgcgcg gagt 344

<210> 43241  
<211> 122  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A8

<400> 43241

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accctgcgcg tactggatga acggcatcta cgatcccgt gtctgcaccg tccatgatga 120  
ca 122

<210> 43242

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B1

<400> 43242

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gctgctggta gaacatttga gaacagtcct gcaattagaa aggcattgca ctttctgttg 120  
tcaaaagaac ttccttccg tggttgggga gaaagctatt tgtcatctca agaccagggt 180  
tacaccaatc tcaaaggcaa ccggcctcat gcagtgaaca ctagttgggc catgctggcg 240  
ctgattgatg caggccaggc cgagagagat ccaacgcctc tacaccgagc agcaaagggt 300  
ttgatcaact tgcaatcaca tgatggagaa tttcctcagc aagagatcat aggagtgttc 360  
aacaagaact gcatgataag ctactcccag tacaggaaca 400

<210> 43243

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B10

<400> 43243

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catattgtct tcagatacag tatactgaca aactcttggg cacgaggtga ggtgatgaac 180  
tctcctcggg gtttattcgg gtcggcaagc gttggtgaga aggcataatg tgctggtggc 240  
actgattctc ttggcaggat ccttagctca gcagagctat acaactctga gacacatact 300  
tggaacacctc ttcctagcat gaataaggca cggaataatt gctctgggtt gttcatggat 360



ggcaagtttt atgtaattgg cgggtgtgaca aacaacaaca tggatttgac ctgcggtgaa 420  
gtgtacgatg tgc 433

<210> 43244  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E3

<400> 43244

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gcgctcttag ccacgcctgc ggccgtggac gcggccacgc tggcggagat ctgcagggga 180  
accgcgttcc ccgacatctg caccagcacg gtggggagcg aggcgcatac gcgcgggggtg 240  
ttggacgcca tggcgggtgtt gcggatgcag gtggacgcgt tcaacaagcg caccgaggcg 300  
gcgagggcgc acgtcaagga ggccgccgtg acggcgctcc ccaaggcgcg gacgggtgctt 360  
gacctgtgca acaacctgta cctggacgt 389

<210> 43245  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-049-Q1-K1-F4

<400> 43245

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gactgcgcca ttttggcaag tgggataagg acaaggataa ggaagatgat aagaatgggg 120  
ctgaggacgg tgaagatggt ccggttccga tttcagtctt catggttgca agtgtcctca 180  
aggagaagag agaaaagctg ttacaagaag ccagaggact ggatgatctt atcaggatat 240  
tgaacgatgt aaatgggaac ttagatgcta agaaagcttg cgctggagca ttgaaacttc 300  
acaaaaaata cctgaaaaag gtacaagcaa agaaacctta aacgtgccat ggaacacacg 360  
tccccaatgg ggctatctgt accatttcaa catacacgac cattntctac acacaacttt 420  
gagtga 426

<210> 43246  
<211> 268  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-049-Q1-K1-G2

<400> 43246

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gtgtcagcgg gcgtgtgtat gtatggagtc ngccgcggcg gcggaggagg tgtgcgcgtg 120  
gtgggtgggg tacgtgcttc gacgcgccac tgtttgcgc gccgatcatg tactaccctg 180  
ctgcgttttc tggttatcaa tgagatgatt tatttgattc ttttcagcct gggcactaat 240  
ataagcgcac acaattttac ggtaaaaa 268

<210> 43247  
<211> 298  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G4

<400> 43247

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gaggtactta gtcctaggca agccgaccgc cgacgtacga ccgcgccaac ccgagagaga 120  
ggatggatat gatcaagagg atcctcatcg ccgcgctcct tgtagtcgcc gtctcggcca 180  
ccgcagtgtc ggcctccacc gaggtcgccg tcgtcgggtgc cccagtcgtc ttcgagtcgt 240  
tggtgttcgt cgaatccctc tctggcgccg tcggtgccgg cgccggtacc ggtactcg 298

<210> 43248  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A2

<400> 43248

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agcgaagtaa acatgtctga cggggcaaag atgtcgtggc aggcgtacgt ggacgagcac 120  
ctgatgtgcy agatcgaggg ccaccacctc gcggcggcgg ccatcgtcgg ccacgacggt 180  
gccgctggg cgcagagcac ggcgttcccc gagttcaaga ccgaggacat ggccaacatc 240  
atgaaggact tcgacgagcc atggcacctc gcgccgacag gcctgttcct cggacctacc 300  
aagtacatg 309

<210> 43249  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C6

<400> 43249

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tacgaaacca gaaacgagat gcggcgatgg aacgccatct taagagttat tggttggcaa 180  
gggcaacaac aacaagaacg tgggtaccaa taccaacagg gcagatcggt tactgctggc 240  
ggacgtagta ttaacccatg gtggtggggc cggccgcggc ggggtgcttc gggatcccgg 300  
gcgctgctgc ccccatggcg gcggcggcgg ggtcggcgct cctgggctcg tcccgcggca 360  
cgatg 365

<210> 43250  
<211> 259  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C7

<400> 43250

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tatctataaa gatggccaga cccgtgaaca tactgggggt gcgttaacct tgggaggggg 120  
ggaaataatt tgctgctgca acaagatgga tgcaaccact cccaaatact ccaagggacg 180  
gtatgaagaa attgtgaaag aagaatcatt ctaccttaag aaaggtgggt gcaaccctga 240  
taaaaatgcc ttttttccc 259

<210> 43251  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-050-Q1-K1-D2

<400> 43251

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 gtcccccca tctcttttcgc cacgcgcgcg agagggggga gaggaacag ctagcagcga 120  
 gcgaggaacg aagaggggtgc ttcgcacgtg catgtgagat cgggcgatcc cgatcgtcgg 180  
 ccggcgcgaa ttgaactaac gacgacgtac gtgcgaccgg ggcgggcggt ggattattcc 240  
 ggctgagca atgggcaaga tcgagtacgg cgtggtggcg cgcgggcgcg tgggtgctggc 300  
 ggancactac ngcgcgggcg cgggcgggcg caacgcgggc gccgtggcgc g 351

<210> 43252  
 <211> 474  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D5

<400> 43252

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 aaaaagaaaa tttatgaatt ggaaacaatt ttttgttctg ataattcaaa aaaacggggc 120  
 ggcggttcta gaggatccaa gcggggcggc ccatactttc aaagatgggc acgagaaatg 180  
 cctatcggtg aaagagtttc gtgggcgatt ggaggaatgg ttctcacagg tggacttatt 240  
 tttatcacca aaagaaagag ctacagccat catcagaagc aagctggtat tggtaataat 300  
 atgaaattga gaacgctgga ttctagagac cactcacaac aaacaaagcg gagctaggaa 360  
 ggcatacgca acttagcggt actcagagga ttcttggaact tgtgcttcta cttttgtgga 420  
 tcggtataat caacaactgg gaacaatata ttgtactgtg tgtgggtcca tctt 474

<210> 43253  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E10

<400> 43253

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gcttaccttt taaatagagg tggcatgggt acaataccaa gcacttgtag agcaaccaca 120  
tgtaacttga aaaagaagga ttcttggaat attgctgggt caaaatatcg attgcttctg 180  
ggacctaagg gacatcacga acaagaaatg gctattcccg cttggggtca tgaccctcat 240  
cttctaagcc gaaagcactg gtgacaccag catttctgtg cttggcaatg ttgaccatcc 300  
ctact 305

<210> 43254

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-050-Q1-K1-E11

<400> 43254

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caggcaaccg gccggtatat tagtagatct tcgatcgggc atccaagcta ataagtcgag 120  
gagcagcagt aggtcgaaaa tggcgatgaa ggcgctagcg ctactgggtcc tectcaacct 180  
gctggttggt ggtgtggcgc aagcgggtgga gttggagatg gagttgggtgc ctgctgatgc 240  
aattgcgatg actatggatc atgagccgcc gcangagtgc gcgaccccggtgagcgtgga 300  
tgaagcgtgc cgcggcgcgt cngaaacgca cgcggcgtg gcctacgacc actgcatggc 360  
gtcgtggtggc gccgacccgc gcagcaagga ggccggcaac aagaacatgc acgcgtggc 420  
ggtgct 426

<210> 43255

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E5

<400> 43255

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 agggggaata aaaaaaaaaa aaggggggga 90

<210> 43256  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E6

<400> 43256

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 gagagacctc agccctcagg caagcgcgac cgccgacgta ccaccgcgcc aaccgagag 120  
 aaagatggag atgatcaaga ggatcctcat cgccgcgctc ctgtagtcg ccgtctcggc 180  
 caccgcagtg ctggcctcca ccgaggccgc cgccgccggc gcccagccg ccttcgagtc 240  
 gtcggcgctc gccgaagccc ccgctggcgc cgccggcgcc ggccgcggca ccggcaccgt 300  
 cgccggggccc tccgccagcg ggcgcgtgcc cgccctcgcc gccgcgccc cggggtcct 360  
 ctttctctc tcgcctacta cctgcactaa gcggacggac ggactgacgc gcgcatggga 420  
 ttggcatgca tggactgttg aacatctatt catgc 455

<210> 43257  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-050-Q1-K1-G4

<400> 43257

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 gacctcgcgc gagtgctaga aaaatcactc gacttctacc gagatcctga ttagcaaagc 120  
 agtactcga cctagcatac tagtattcat ctcaacaagg aatcctaagt tcatgcaact 180  
 agaggtttca agcaactcct aacttaagt gcacattaca atcctacaag cattaagtgt 240  
 agtaaagtag catataataa tacgggtgatg catataaacc agggcttgcc tttaatagct 300  
 ggggctgcgg ngagatcctc gata 324

<210> 43258  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-G8  
  
 <400> 43258  
  
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 cctcggccta acatgtttcc aatggagctc aaacaagtgt ctggtgggac acctgagctt 120  
 gacggggggg cgatagcaca gattaagtcc ggcaacatta aagtatttcc tgcaattcga 180  
 aatttccaag aatatggtgg agagtttaca aatggtagga ttgaatcatt tgatgttggtg 240  
 attcttgcca caagttataa gagtaatgtt tcttattggg tgaaggagaa tgaatttttt 300  
 tcacagcaaa atggatttcc aaacaaacca tatgaatgga aaggaaagga tggactctat 360  
 gctcctgggt tctcaaggcg gggcctactt tgggtgacta ttgatgc 407

<210> 43259  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-050-Q1-K1-H12  
  
 <400> 43259  
  
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 aaactaaaaa atgaagtctt gctagctatg gcctccgaac aacctgacga cacaaggaga 120  
 caacaggtcg acgatgacgc tcctggacaa cgngattgaa actatagcat ctgcattggc 180  
 gacgctggtg ccattccctt actattgagt gttctggaga catataatct gcatacccag 240  
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 atatcatc 308

<210> 43260  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-050-Q1-K1-H3

<400> 43260

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ttcttcacca acgccttcgg cgtgcgggtcc atcaaggaga acgacaagga gctgatggcg 180

gcgctgtacc tgcaagtgag catcatcagc caggcgctca tcttcgtgac ccggtcccgg 240

agctggctct tcgtggagcg gcccggcgcg ctgctggtga tcgccttctt ggccggcgag 300

ctgggtggcga cgtgcatcgc cgtgtacgcc aactgggagt tctgcaagat gcanggcac 360

ggctgggggt ggggtggcgc catctgg 387

<210> 43261

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-050-Q1-K1-H4

<400> 43261

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ccttgctgag cgtggcccta gtgggcctgc tcctctgcc aetcgccacc accggctccg 120

cccaccagaa agacatccac gtctcggca gcgtcgacgg ctccagcgac ggcagcagcc 180

ccgagtccga aggccgcgtc gtctacgcgg acatgaagct ggctgatacg gaatccgatg 240

cgccggcgcc ggccggcgcg cgggggccgt cgtccggttg aactgagaag cgtgcgtcca 300

gccaaagcaag gtggtcaaaa ccgagaacta attaagggtc cgattgtgtg tccggctact 360

actgttcttg ccataattat atatagatac gcanagtgtg gccaaagccta cccacatgca 420

tgctattgca tgctccgaa tatata 446

<210> 43262

<211> 317

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-050-Q1-K1-H6

<400> 43262



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ccagcacaaa aaagggattt gctagctatg cgtanaacga atgacgacgc agggcgggcaa 120  
caggctcgacg acgacgctgg tcgccgccgt ggacgtagtt ctggccgtgg cgggcgcgctc 180  
gtccctggcc ggcgtggcgt ccgcgagaaa tgcgggcggg ttcgtggtga cggggcgcgca 240  
gtactgtgac ccctgccgcg ccgggttcga gactaacgtg ttcaggaacg tggcctgcgc 300  
gacagtggaa gtggtgt 317

<210> 43263  
<211> 109  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-H4

<400> 43263

ctgggtatca ttttagtgca tgatgtttta gtatagaaac catgatagtg agattgacaa 60  
gaggtatctg cttaaaaaaa aagaaagaaa agaaaaaaa aatagaaaa 109

<210> 43264  
<211> 472  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B4

<400> 43264

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gtccatggcc aaggaattgg ccggcacctg caaggagatc ctcggtacct gcgtcagcgt 180  
cgggtgcacc gtcgacggca aggaccccaa ggacctgcag caggagattg acgacggcga 240  
ggtggagatc ccgtccgctt aagaaggatt ggtgtccagg actgtgttat ctttgctgct 300  
gaagccattt tctctgcta gattttctca tattttattg aggtgggggt ggacgtggac 360  
gtggaactat ggaagttatc acagcggagt tttgcttaga aactttgtca tgctttaagt 420  
ctgagacaat tttatgaaca ttcctaagta caatcgaagt taccagtgcc tg 472

<210> 43265  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-052-Q1-K1-B9  
  
 <400> 43265  
  
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 ttacactgat ttagagacat tcgaacaatc aaaatgatct gcattgtatt tacacaacca 180  
 ccttcggatg gagaaacgcg ggctctcatc actatgcata ccgaacatcc aaaggctgat 240  
 ccacacttaa tcaactccat aactggcaga aagaggtgga ctgggtgcac ttcgaacacc 300  
 aaatgatgct caaatgcatg tactagctaa tatcggagac ggagaactac ctgcagctca 360  
 taactaaaat gattgaatgg ga 382

<210> 43266  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-052-Q1-K1-C5  
  
 <400> 43266  
  
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 catggcgtag ggtgccaagt tcacgttcca gttctcgacg cccgtgcagg ccgtggtcga 180  
 gcccgacct aaggtgacca tgtacgcgcc accgttcacg acgcacgggt actccatgaa 240  
 ccagcggctg gtcgtgctct tcgtcaccgc gggtcgtggt caacgggcag aggtacacga 300  
 taacggtcga cgcttcggga aagcctgagc tcgcgcgcc ccggtatttt gaggggtacg 360  
 gcatatgcaa atggcggttct gagcaaggcc tcgtgggtta acgtacacaa a 411

<210> 43267  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-052-Q1-K1-D1

<400> 43267

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gggtgttatt gttaaacttt taacgggtcat tctatttcaa aaaaaaaaaa anaataataa  120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  180
aaaaattnng gggcggccgt tttaaaaaat ccaagcttac ttaccogtgc atgcaacgta  240
taattttttt ataagggaac ctaaaataaa ttcactggc                               279

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<210> 43268  
 <211> 488  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-052-Q1-K1-D5

<400> 43268

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gaagcatgat ggaaggTTTT cttcggggca ctggcacctt gtttggaact tatgtgggtg  180
gtttccatgg tgaggagcgg tttgggaagc tagggatatc tgcaggaagc catgtcggaa  240
gctgggggtg aggaagaatt ggattgatga tttatgatgt cataagcgga ctgaaatata  300
tgttcatgtc tgtccaacct aagtatgaat catcgtcata tgcatacagaa gatgggtccag  360
aatacgcaaa aagatataca aaccaagagg agccaacata ctatgaacca tcaaaggaaa  420
agcaagaaga atcaaaatgg tttcggttgt tctaaatata tgaaccgaag tgtcccgtt   480
aaactcaa                                           488

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<210> 43269  
 <211> 461  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-052-Q1-K1-E8

<400> 43269

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ccgctgcaa gcagctggtc gcacgcgtcc tcgaatttcc ggaggttctt cgccgaagca 180  
ccctgcgcgc ctgcttcgcg gtccgacgtg gtcggcctat ttgggcaccc aattgaccgg 240  
agaagaacag gtagcccagg aggagccgca caacgaggag ttcgacttga tctaggtggc 300  
gtctcctagt cgactttgtg gcgccaagga tggacttttag ttcgctttat atttatcttt 360  
tattttgcaa gacttaagct atgtaataaa tacttttatg atattatgac atttatctct 420  
atacactctg ntatttatgt gttgtcttct ttggcgcata t 461

<210> 43270  
<211> 76  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-052-Q1-K1-F10  
<400> 43270

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gggtggtatg cagatc 76

<210> 43271  
<211> 459  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-052-Q1-K1-H3  
<400> 43271

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cgatgggatc cctcgctaat aacatcatgg tcgtgggcgc cgtccttgcg gcgcttgctg 120  
tcggcgggtc gtgcgggccc ccgaagggtgc cgtccggccc caacataacc accaactaca 180  
acgggaagtg gctcaccgcc agggccacct ggtacggtca gcccaacggt gccggcgctc 240  
ctgacaacgg cgggtgcgtgc gggatcaaga acgtgaacct gccaccctac agcggcatga 300  
cggcgtgcgg caacgtcccc atcttcaaag acggcaaggg ctgtgggtca tgctacgagg 360

tgagatgcaa ggaaaaacct gagtgctcgg gcaatcctgt cacggcggtc atcacagaca 420  
tgaactacga gcctatcgct cctaccacnt cgacttgag 459

<210> 43272  
<211> 77  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H6

<400> 43272

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attgtccagt caaggga 77

<210> 43273  
<211> 188  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A9

<400> 43273

gaagtattga aataaagctg tagctttcta gtccagtact gcactttctt ttataagctc 60  
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<223> Clone ID: LIB3075-053-Q1-K1-C12

<400> 43274

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<223> Clone ID: LIB3075-053-Q1-K1-H7

<400> 43275

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cagaacctgc cgctcgtcaa ggaggtcggg ctcggtgctg accttgtcag gatcgacgcc 180

cactccatgt gctcgcccg gcttcttctgc gacttcgcct accaggtcac ctacatcgtg 240

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<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A10

<400> 43276

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tttgccggtt ttctagtttc agttattcat ggaaggtagc atatcattgc acaattgtgc 180

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gcacatctag taagccatga aagaccagac gaggtgaaca atgcacttat ggatttgata 300

aaggccacca aatctgcgat aaaacctgaa gagtggtagc ccagagccga gaacacgttg 360

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<210> 43277

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 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D7

<400> 43278

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<223> Clone ID: LIB3075-054-Q1-K1-E1

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<211> 350  
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 <213> Zea mays  
  
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 cgccaaagtc gtcacctaca cctgctcctg taagcttgcc acctactgaa gtaaagtctt 240  
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 <213> Zea mays  
  
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<210> 43282  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-054-Q1-K1-F6  
  
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gtgcaaggag tcttgcgcg ctcctccagca gtccaacctg gggctgtacg gcaggatcca 360  
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<210> 43283  
<211> 480  
<212> DNA  
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<223> Clone ID: LIB3075-054-Q1-K1-G1

<400> 43283

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tcctcttcta catcctcgcc gtcgctgccc tcagcgcgcc cgaggcaccg gcagagtcac 180  
cgaaggcagg cagtctgcc aaggcaccgg ccgagtcacc gaaggcaggc agtcctgcag 240  
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cagctgccgc gccgaccacc gtcggctcta caccgtcttc ttccacggac gaggagtga 420  
gccctttcgc gtcggcatcc accggcgaag gggcggtccc tggcgctgat gggcctgctg 480

<210> 43284  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G6

<400> 43284

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tctcgctgaa cgactacctg gctgtgactg cggcgaagca cgcgacattc ctgccgcaact 180  
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tcatgaagca caccctggag atcatccacc tgctcactga cgccaatccc atccaggtgg 360  
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<210> 43285

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H7

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 aaaaacgccc atggaacctc cgattaaaaa atataaaaaat tggaaactgt actgcatgct 180  
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<210> 43286

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A10

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 ctagcggcgg cggcgaggac gtggggtcgg cgggtgcaggt cgccaagaag aagtcggtcg 180  
 ggttcatcct gcccaacctg gaggtgaagt tcgtggaccc cgacacgggg cggtcgctgc 240  
 ccaagaacac gccggtggag atctgcgtgc ggagccaggc cgtgatgcag ggctactaca 300  
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<210> 43287

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A11

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tgggtctgtgg aaattgggtc gtctggaaag gtgctccaac aacttcaactg atcactattg 180

caatgaccaa aataggggct agtggattgg agaaggacca cttgccaggg gcaattttta 240

catctttttg tggggggcact gtaattgggtc aagcgcattg ccctttgcac ttggataacct 300

ttgggttcat tcaactggag tgcacgggct ggtctaattg gtcagcaaca agttagtgca 360

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gtagatatt 429

<210> 43288

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B6

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ccatgacgac gtcctagtct tggctcttcc ttgctattca agctactgcg ctacgcgcgcg 120

togtcatcgt cgtacaaccg actcgggctg ggctcgggtgc accgaccttc gcctcaactgc 180

gcccgcacgc acatgcagcc ggcgaagggc actaaaccac actcggcaac ctgtcgcgta 240

gcctgactct gcgtatgctc agccagtact ctgcgacttg tggcagacga ggttgcgccc 300

gagctgcacg ca 312

<210> 43289

<211> 230

<212> DNA

<213> Zea mays

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<400> 43289

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ggcaatggag cgtctgatag cactttcgat gatcacgaat ggttggtgat accattcgag 180  
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<210> 43290  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E3

<400> 43290

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agcaacagga ccatgcgctc caaccaatgc aggctattga tcatatgatg aaggcactca 180  
tcatcacaca tcgtatgtcc gtcggcatga tatctgacct tatgggcctc agaggaccca 240  
tcgtcgtgga tgctgaagtt ggtgctcaac actcacagtg ttatgcagat tggtttgcac 300  
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<210> 43291  
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<212> DNA  
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<223> Clone ID: LIB3075-055-Q1-K1-F3

<400> 43291

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atctcaaaga gtcgccagcc aaaaccttca cctcgtatag caaggagccg attaagggcc 300  
ccatctccgg ccgcttcgct gtgaaagggtg gtggctaccg cgtcgt 346

<210> 43292  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H3

<400> 43292

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ccctagcttt catcaccttg ccgaaaaagt gggggaatcc gttgcgagcc tgaatggatc 240  
atactaatat catgtcatta caataacatc aagcaacatt ctttgagcta cgaaggccat 300  
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<210> 43293

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A5

<400> 43293

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aagctcgccc gcgccgtcgg cgacgtcaac gcggcctggc tccgctcgat ctccaagcgc 300  
gtcaaggagc tcgtcgcccg cggcgctgct ggtggtggcg gcacggcccg cggtgccaag 360  
tcggctgcgc tccgcgactg tgccagcacg gtctcgtc 398

<210> 43294

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D4

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gtgttcatca tggacaactg cgaagagctg atccctgagt ggctgagctt cgtaaagggg 120  
attgatgact ctgatgacct tcccccaat atctctctg tgactcttca tcagaacaag 180  
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<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D5

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gactataggg cactattcta cacaactact gacggcacgt attgtatgga atctgtgcta 240  
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tcactaatat tctatacatt ctatgagagg cgataatcga acaattagtgt tttcatttaa 360  
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<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F2

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<223> Clone ID: LIB3075-056-Q1-K1-G1

<400> 43297

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H5

<400> 43298

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 gagactctca ccgatctcgg cgccaatgta cgatggtgct catgcaacat cttctccact 360  
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<210> 43299  
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<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-H4

<400> 43299

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gaaccttggt gcgggtatcg caaattaaaa cctgaaccct gccgtgaaaa 230

<210> 43300

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-H6

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<210> 43301

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-H7

<400> 43301

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ggacgcgtcc ctactctcca gctccgcgca ctccgacctc ctccaggcgc gcgaggaggt 180  
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ggtggaggag taccatgcgg ctgccggcgc cggcaagaag ctcaacttgc tcccgcaagt 300  
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<210> 43302  
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ccattct 127

<210> 43303  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-022-Q1-K1-A1  
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<210> 43304  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-022-Q1-K1-A10  
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<210> 43305

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A2

<400> 43305

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cttggatcgt gaggtacta ctctgctgt ttgcagttgc atagaactgc atcgccgaa 180  
gtgtacagca cggtttggtg gccttgcca tgcgctacgg tagggtagtg agacgagcag 240  
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<210> 43306

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A3

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tggtggtggc ggcagtgata gatgcatcaa gttctggaac acacacactg gagcatgtct 180  
gaactctgtt aacactggat cacaggtctg tgcccttcta tggaacaaaa atgagagaga 240  
gctgctgagc tcacacggat tcacacagaa ccaactaacc ttgtggaagt acccatcaat 300  
ggtaaagatg gctgaactca gtggccatac ctctcgtgtc cttttcatgg ctcaaagccc 360  
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ttgag

425

<210> 43307

<211> 374

<212> DNA

<213> Zea mays

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<400> 43307

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tggtggtggc ggcagtgata gatgcatcaa gttctggaac acacacactg gagcatgtct 180

gaactctgtt aacactggat cacaggcttg tgcccttcta tggaacaaac atgagagaga 240

gctgctgagc tcacacggat tcacacagaa ccaactaacc ttgtggaagt acccatcaat 300

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tgatggttgc acag 374

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<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A5

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tggtggtggc ggcagtgata gatgcatcaa gttctggaac acacacactg gatcatgtct 180

gaactctgtt aacactggat cacaggactg tgccctttta tggaacaaat atgagagaga 240

gctgctgagc ttacacggat tcacacataa ccaactaacc ttgtggaagt acccat 296

<210> 43309

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<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3076-022-Q1-K1-A6

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gaggctgctg ctcccagga gtcgcgcgcg gacgagccgg aggctcctgc tcctgctcct 180  
gctgggtcccc aggagccggc cgccgaggcg gaggctgctg ctctgagga gcccgagaag 240  
gccagcgagt gaggccgtgc gcacgcagcg gcggcgcca gggcccaggc cccaggggat 300  
cggcgtgcgc gcgtggcggn gtagtctctc gcgcgcgtac atggcagtat gacacgggat 360  
tttgctgntc agtacgtac ggtactggc gtctctctgn gtgtgtgtgt gtgtgtg 417

<210> 43310

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A7

<400> 43310

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gaggctgctg ctcccagga gtcgcgcgcg gacgagccgg aggctcctgc tcctgctcct 180  
gctgggtcccc acgagccggc cgccgaggcg gaggctgctg ctctgagga gcccgagaat 240  
gccagcgagt gaggccgtgc gcacgcagca gctgcagcca gagcccaggc cccaggggat 300  
cggcgagcgc gcgtggcgct gtagtctctc gcgcacgtac atggcaatat gacacgggat 360

<210> 43311

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A8

<400> 43311

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gaggctgctg ctcccagga gtcgcgcgcg gacgagccgg aggctcctgc tcctgctcct 180

gctggtcccc aggagccggc cgccgaggcg gatgctgctg ctctgagga gcccgagaag 240  
gccagcgagt gaggccgtgc gcacg 265

<210> 43312  
<211> 61  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A9

<400> 43312

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<210> 43313  
<211> 317  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B1

<400> 43313

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gccgtgccgc caggcgcca cgccgaccgc gcggagctcc gactgatgcc tccggcgctg 180  
acgccgcggc ggctcgagga cgctgtctct tctgcctaata ccgagctggt cggagaggtg 240  
gtgtcggtgt ccagagacag aacgcactac tgtaccgctg gcggtgcca cgggcacgcc 300  
atcactgccg tcaactga 317

<210> 43314  
<211> 56  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B10

<400> 43314

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<210> 43315  
<211> 90  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B12

<400> 43315

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gtcacatttg aggcggcaac ggctcaccag 90

<210> 43316  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B2

<400> 43316

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gccgtgccgg caggcggttca cgcggaccca gcgagctgc cgctgatgtg ttcggagatg 180  
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<210> 43317  
<211> 463  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-021-Q1-K1-H3

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atgacctggg atgcgacttg tactccctgg gtgcctgtat atgatcgcta ccttccacgt 120  
atctgcatct gtgttaatct cccattgtat gctgtgcagc tagtgtaat cttaggtaga 180  
attgtagctg tgggtgtggt atcgcaattc agagctgaag cctggcggtg aaattccagc 240  
taagggaaag aaaattacac tgcgtgttca aaatgcacaa gaccttactc gtgatgtcat 300  
aaagtcagat tcagctagcg taaaagtacc tgaacttgag ttggaacttt catgtggaac 360

gttgggtggt atggtcacaa ctgttgaagg ttttaattgtg aaaatatgtg aggctctgga 420  
gagaatacat ggatttcaat tangcgatag tacactggaa tgg 463

<210> 43318  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B3

<400> 43318

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gctgtacctc ctggcggtta cgctgacccg gcagagcacc tattgatgac tctggcgctg 180  
ccacctcggc tgctcgagga agtcctctat tgtgcctact ccgagatgtt cggagagg 238

<210> 43319  
<211> 209  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B4

<400> 43319

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gtgtacttgc tcacgcatac aatcactcaa gctgtgtaat tcattctctg ggataagaat 180  
acttctatgt gaatattttg gtctaattt 209

<210> 43320  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B5

<400> 43320

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ttcgcgactt cgtcggagcg tgcaagaaga atccttcgct cctcgccgac cccaacctct 180  
ccttcttccg ggattacctc cagagtttgg gtgccaaaat tcccgccgcc gccccctctt 240  
tcgaaagtcc caagagatct tccatggacg acattgatga cgacggtgat gacgacgacg 300  
atttgatat gagggatccc actcctgagc gagacgagct cgatgaagag attgttgagt 360  
ctgatcttga gctcgaaaga gaaattgtac agtctgacca tgatgacca ccacagaaga 420  
t 421

<210> 43321  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B7

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gatcatgcct gttatatggc atcaatcact gcttgcatct gtggaaagat acaagaacta 180  
gttatagaaa aaggataagg agaaacttgc acgtttgttg gatcaccaga aacactatct 240  
agttactcca gaaattcgaa gggagcttca agggagctgc aacaggggtg aaaaagatac 300  
aaatttgcac acttagtcac ctatttacgt gattaccaag ccta 344

<210> 43322  
<211> 339  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-021-Q1-K1-F5

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ccggctgttg acacaacggg gtgcagcagg aaaagggcta ggctgncgga gctgctcaac 240  
gccagggaga tgtaccgcgg cngagtcacg ttctccaata aagcccgcag ggtcacgttc 300



aagcagcagt gccactacgc gcaggcgtat cagcccatg

339

<210> 43323

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<400> 43323

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<210> 43324

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G1

<400> 43324

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cgtaaagcag atcctgccaa ggcaaccgct aatggtgttc caaatggtac tggtcacact 120

cacagttaca gtggaaactg taccaagcca acaaagttca gcacttgacg cctgatggaa 180

ctaatagggc gcccttgcta ggtggagttc cttctgctgg ttacctagac acgacatatt 240

atgggtatga cagcacaggg gcacaatttg catggtatga tggctctgct aatgcaaattg 300

gacagcaaag aacaaccaca actaatcgtt ttccatcctc gtcattcagt ggtaatgggt 360

catctgcaat atatcagaac aagagctcca ccacgcagca aatgggtatg cagaatagaa 420

gacctacaac taca 434

<210> 43325

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G10

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<211> 296  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-021-Q1-K1-G11  
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atcactatga tcgggctcac gtgctgaagg ctgcgctttg gtaacaacac catagacatt 180  
atcattatca aaaaccgctt attgcatgtc aacatgctaa ctgaattcct acttgacagac 240  
tgcggtgtaa aggctagggg atatacgaca tgacagtatg tatgagatct cctgca 296

<210> 43327  
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<213> Zea mays  
<223> Clone ID: LIB3076-021-Q1-K1-G12  
<400> 43327

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actacgacgt tctcgtgac taacatct 148

<210> 43328  
<211> 477  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-021-Q1-K1-G2  
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 atatggagca atgacacttc accaccatgg gatgcagcac cccatccaaa tataaatcta 240  
 caaatgaatt attggcctgc gcttccttgt aatcttagcg agtgccaaga accactgttt 300  
 gactttattg gttccctctc aatcaatgga gctaagactg caaaagtga ttatgacgct 360  
 agtggttggg tcagtcatca agtcacagac ttatgggcaa aaacatcacc agatgctggg 420  
 gatcctgtat gggctctatg gccaatgggt gggccttggc ttgcaactca tctctgg 477

<210> 43329  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G3

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 ggtatgacag cacaggggca caatttgcac ggtatgatgg ctctgcttat gcaaatggac 300  
 agcaaagaac aaccacaact aatcgttttc catcctcgtc attcagtggt aatgggttcac 360  
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<210> 43330  
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<223> unsure at all n locations  
 <223> Clone ID: LIB3076-021-Q1-K1-G4

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<210> 43331  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G5

<400> 43331

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<210> 43332  
 <211> 329  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G6

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catccggtgc tgagccctcc aggatgcatg atgaacatac cttgctggcc tgtctgatga 240  
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<223> Clone ID: LIB3076-021-Q1-K1-G7

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 tcacggttac agtggaaactg ttccaagccg acggagctta cgactgacgc ccgatggaac 180  
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 ggcaatctag aacaaccaca 320

<210> 43334  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G8

<400> 43334

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 taaaagaatc attcatgtcg acactatcta cctgaacgga gatttcatgg tagacctcac 180  
 caatgatgtg tacggcacgg tcaactgcgc ccattcagat gtcacattat ctgtggctgg 240  
 gctgacacag ctgcctaaga gcatgtgcag gcagggtctat ctaccggcag tacatgcacc 300  
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<210> 43335

<211> 394  
<212> DNA  
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<223> Clone ID: LIB3076-021-Q1-K1-H11

<400> 43335

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cagtgtcctc gtcagatacc tcagtattgg acatctactc atacaactgt cagcattgct 300
gattgcccta tgcaaggcat ctagtgaat gtgcacaaga tgattgtagt aatagtaacc 360
atgagttatt catctggtgc acttcatgta tgtg 394
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<210> 43336  
<211> 323  
<212> DNA  
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<223> Clone ID: LIB3076-021-Q1-K1-H12

<400> 43336

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tggttcatcc ctgcatattc agaagaggat ctgagaagaa ttccagctct acagggctct 180
gattatcctg tcagtgaagc cagattttga tggccaggaa ttgtaatggg gcaattctaa 240
cagtgtcctc gtcagatacc tcagtattgg acatctactc atacaactgt caacattgct 300
gattgcccta tgcaaggcat cta 323
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<211> 443  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-021-Q1-K1-F4

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 ccagaggctc gtcagggaaa ttgcacagga cttcaaaact gatttgcgtt tccagagcca 180  
 tgcggtgctt gccctccagg aggctgctga ggcatacctt gttggcctgt ttgaggacac 240  
 caacctgtgc gccatccatg ctaagcgtgt gaccatcatg ccaaaggaca ttcagctggc 300  
 aaggaggatc cgcggcgaga gggcctaata gccacctcaa acatcgtgac aaaaacatga 360  
 aatcctgnng ttattgttaa tctggtgcc a tttgtaggac atatgattag gggatatgtt 420  
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<210> 43338

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D7

<400> 43338

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 ccaacattca ctgcgcatcg catctacgcc gagaacgcca tgctcaagcg caccgagcac 180  
 attaactacc tccgtcttac ctctcgcta gacacctct taaccgcct tttacacgca 240  
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<210> 43339

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D8

<400> 43339

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 aagggaaca tggacggcgc ccgcatctac gccgagaacg ccatgcgcaa gcgcaccgag 180  
 cacatgaact acctacgcct cgcctctcgc ctgcagcccg tcgtggcccc tctcgacacg 240

caggccaaga tgcattgtcat cggcaagtcc atgcagtcca tcgtcaagtc gctcgactcc 300  
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ttcgtcaaca t 371

<210> 43340  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E1

<400> 43340

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tgattgacaa cacaatgtgt cgaagggaac ttgacacact gtgtaggggt cttctgcaat 180  
tccttatcgc atataacatt gtgtctgaat tcaatatgca tgatatcatg agtatatttg 240  
ctatggttca caaagggttac acgaataaca acattgccaa actgtgcaag gatcttgggc 300  
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tttttcattt ggtgcaaaat ttaatt 387

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<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E10

<400> 43341

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tcgtctgagg tgctccattg gattggatcc ggggaaggaa gaggaactgg ttgaccgttc 180  
ttcattacag tttggtcttt tgcaggattc ttaaaagttg gacggcgctg ctagtattcc 240  
atgtttcgcg tttgcatatt ggaggacgtc tgtcgatgta taaaatcctc gggcgcttgt 300  
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<210> 43342  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E11

<400> 43342

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tgcacgacac gcgcgtggac acgcagatca acgcgcagct gacggacagc tacaacgggc 180
tgaccatcat ggcgccacc aacgccgctt tcgacaagat gaaggccggc gtgctcaacg 240
ggctgtcgcc gcaggaccag atccagctcg ttctctactg cgtgctgccc cgcttctaca 300
gcctctccat gtcgggcacc ctcgacggca aggtcaacac gcagggctcc ggccacgacg 360
ggccctacag gtacgaacat cagccggtcg gcaacaacgt caacgtgttc acgggcgtca 420
actggatgct gct 433
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<210> 43343  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 43343

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cttgatgtgg aagatgaaat tgaaggaagc aatagtggaa agatggtgat gatcaaggcg 180
tgtggatgct catggtcttc atattgctga gttcgatgat ggttgatcat gcataaaagt 240
tgtaacctat gtggttgaac ttgtgctggt gaacttgatc tgtttctntt tatgctattt 300
ggtttgtgaa ctcaacttat gtatgaactt attctatatt tgaatttcta tgtcaagtct 360
gaaaagacgt ttcaacattc gggttaaac 388
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<210> 43344  
 <211> 381  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E2

<400> 43344

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tccgttgctg cccctcccgga agaaggccgg caagatcctg gtcgccggca gccacgcca 120  
cgacctgggc aaccagtgcg ggggggtggac gatcacgtgg caaggaagca gcggcaacac 180  
cactgccggc acgacgatcc tctccgggat cgaggccacc gtggacccca gcacgcaggt 240  
ggtgtactcg gagagcccg acagcggcgt gctggccgac aagtacgact acgcgatcgt 300  
ggtggtcggg gagccgtcat acgcggagac gttcggcgac aacctgaacc tgacgatccc 360  
ggcgcgccgg cgcagcgtga t 381

<210> 43345

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E3

<400> 43345

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cgctcgccga catggtgtgc agcgcctatc tggacatgaa gtgtatgact cttctcgact 180  
gcgtcatcgg ctataacagt gtgcccatat tctacatcag tgacatgac accacagact 240  
acatacctac gatgtgctac aatatcagcg ccaat 275

<210> 43346

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E4

<400> 43346

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agggtgctcc cctcgtcgag gagttcagcg gcgtcgccat ggacatccag gaggagatgc 120

cggcggacga cccgctgctg cgtccctggc agctgcccta cccggctgcc gccatgcca 180  
 tcggcgcccc gcacatgctc cactactgat gattgcctcc accaaccaca ccaccatata 240  
 tctgaggctg tcagctgggg ctggttggca acaagacaag aagaattggc tgcctctcaa 300  
 caacattcac atctactacc tacctggctg ctttgagaat tacagggcct ctactatctg 360  
 ctgctgtgtt aaatctacct cctggtttct ccaataattg tcgctggtct gtactcttct 420  
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<210> 43347  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E6

<400> 43347

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 cgcgcgccgc catggcgctc agcgctctc ggttcacaa gtgcgtcacg gtcggcgacg 180  
 gtgccgtggg caagacatgt atgctcatct gctacaccag caacaagttc cccactgact 240  
 acatacctac ggtgttcgac aatttcagtg caaatgtagt tgtggatggc accactgtga 300  
 atttgggcct ttgggatacc gctgggcagg aagattacaa ccgcctgaag cctctaagct 360  
 accgaggtgc agatgttttc gtgcttgcac tctcacttgt gagccgagct agctatgaga 420  
 atatcatgaa gaagtg 436

<210> 43348  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E7

<400> 43348

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 gggcttagcc ggcgcctgct accgccagac ctggctgctc cgctctacc tcttcgccat 180

gttcttcgtc gtctctcgcg tctctttctt cgtcgtcttc gccttcgccg tcaccgaccg 240  
 cggcgccggc cagggtcgta tgagccgccg cttccccgag taccagctct ccgactacgg 300  
 cggatggctc cgcgaccgcg tcgccgaccc gcagtactgg gccaccatca gcgcctgcct 360  
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<210> 43349

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E8

<400> 43349

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 aaaatcctaa atttaaagaa aagggaacac atgttgatta tagaaaaatt aggaggaacc 180  
 tagaattaga gtcttatggg caaggacact attgctgatt tactaacctc tataagaaac 240  
 gcatacatga ataaaaaagg aactgttcga gtagtatcca caaatattac cgaaaacatt 300  
 gttaaatac ttctacgaga gggttttatt gaaagtgttc ggaaacatca agaaagtaac 360  
 aaatatttct tgggtttaac tttgcgacat caaaagagaa agactagaaa gggaatatat 420  
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<210> 43350

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-F11

<400> 43350

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 aagacgaccg ccgggaagaa gcccaaggcg gagaagcggg tccccgctgg caagtccgcc 180  
 ggcaaggagg gcggcgaggg caagcgtggc aagaagaagg gcaagaagag cgtggagacg 240  
 tacaagatct acatcttcaa ggtgctgaag caggtgcacc cggacatcgg catctcctcc 300

aaggccatgt ccatcatgaa ctcttcatc aacgacatct tcgagaagct ggccggcgag 360  
 gccgccaagc tcgcgcgcta caacaagaag cccaccatca ccttccgga gatccagacc 420  
 ttctgtcgcc 430

<210> 43351  
 <211> 189  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-F12

<400> 43351

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 atgacgaccg ccgggaagaa gcccatggct gataagcggg ttctcgttgg catgttcgtc 180  
 ggctaggat 189

<210> 43352  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-F2

<400> 43352

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 cggcttacta catgcttggt actgcctgac atgtattcta cacgtgtacc tctatgccca 180  
 tctgtgctaa gtacttgctc tac 203

<210> 43353  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-F3

<400> 43353

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agaattgtaa ctttcaaaga caatgaagac ccttctcttg tggaacttct gtttcagttt 120  
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 atatggagca atgacacttc accaccatgg gatgcagcac cccatccaaa tataaatcta 240  
 caaatgaatt attggcctgc gcttccttgc aatcttagcg agtgccaaga accactgttt 300  
 gactttattg gttccctctc aatcaatgga gctaagactg caaaagtga ttatgaggct 360  
 agtggttggg tcagtcatca agtcacagac ttatgggcaa aaacatcacc agatgctggg 420  
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<210> 43354

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-021-Q1-K1-D6

<400> 43354

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 aaggcgtcgc gcgcggttgc ttgagaggag aggaggaaga tgagggagtgc catctccgtc 180  
 cacatcgggc aggcgggcat ccaagtcggc aacgcgtgct gggaaacttta ctgcctcgag 240  
 cacggcatcc agcctgatgg ccaagtcgct ggagataaga ccgcgggaca tcacgatgat 300  
 gccttcagca ccttcttcag ccaaactggg gcttgggaagc acgttccccg tgcaatcttc 360  
 ngtgatctag aaccactgt gatcgatgaa gtgcgcactg gcacgta 407

<210> 43355

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A7

<400> 43355

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gcatgtcgac cggactagtc cgtgacaaga tgaagtgcct ccgctgtcgc gaaagcggac 240  
 gaacaccatg ccttgccaca ggcgcatcca cttccgcgcc actggcaaga tgctgt 296

<210> 43356  
 <211> 56  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A8

<400> 43356

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<210> 43357  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B1

<400> 43357

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 aatcaccaca catgcgcaac tttggatgtc caggtgcttc atcttcgatt ccccttacca 180  
 ctggcagttc taggggacca aatcgacgct atgcttcacg ctctgtacct ggggttggga 240  
 atttgctcct aggtcctcaa attgacgaag ctgaagctca tgctgtttca ctaggtgctg 300  
 gttctgaaat cactgcgttc atgcttgctc ctgggactga attgccttgt acagtg 356

<210> 43358  
 <211> 152  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B10

<400> 43358

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 aacgtgcacg atattagcct agagcagagg ta 152

<210> 43359  
<211> 187  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B3

<400> 43359

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cggcggccag ggccgacacc gctgcgtgaa ggcttttttag cacggtcgcg aagcgctcgt 180  
gcgctgt 187

<210> 43360  
<211> 64  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B6

<400> 43360

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<210> 43361  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-021-Q1-K1-B7

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gatcatgcct gttatatggc atcaatcact gcttgcattt gtggaaagat acaagaacga 180  
gtagagaaa aaggataagg agaaacttgc acgtttgttg gatcaccaga aacactatatt 240  
agttactcca gaaattcgaa gggagcttcg agggagctgc aacaggggtg aaaaagatac 300



aaatttgcac actttgtcac ctatctnctg cattaccaag cctatcgagg aagacaaatg 360  
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<210> 43362  
 <211> 189  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B8

<400> 43362

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 actcgatcac cgataccttc acgcaaacgg tgttaagcac ggactggaag cactagagcg 180  
 cggtcggaa 189

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B9

<400> 43363

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 ggtatccaag cgcgatgctg tacttgtgct cagagatcgg acaccctacc tatggatcct 180  
 ccgtcattgt ttgtgtacta agtcagaatg tgtatgattt agcaatggct aatgcaagct 240  
 ccctgataa tatgtcttac a 261

<210> 43364  
 <211> 132  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-C1

<400> 43364

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<210> 43365

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-C11

<400> 43365

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 cactggggcc caacgcgatt agactcctcc ttttgcccaa cttgtgaca tatatgcaac 180  
 ttatggagcc agaactgcaa cttgagaagc agaataacga gatgaaaagg aaggaagctt 240  
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<210> 43366

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-C2

<400> 43366

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 gttagagaaa aaggataagg agaaacttgc acgtttgttg gatcaccata aacactatct 240  
 agttactcca gaaattcgaa gggagcttcg agggagctgc aacaggggtg aaaaagatac 300  
 aaatttgcac actttgtcac ctatctccgt cattaccaag cctatcgagg aagacaaatg 360  
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<210> 43367  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-021-Q1-K1-C3

<400> 43367

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gataccgcag ggcaagagaa gtttggtggc ctcagggatg gatactatat ccatggccag 360
tgtgcgatca tcatgtttga tgtaacctca aggcttactt acaagaatgt tcctacgtgg 420
catanggatc tgtg 434
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<210> 43368  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-C4

<400> 43368

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agttactcca ggcactaaag ttgcaatcat atccaagtct gctcaacctg ctgaaacaca 240
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accaaaggta gagggaaaaag ccccaaaggt agatccttcc aagatgcaag caccaaagcc 360
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<210> 43369  
 <211> 238

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-021-Q1-K1-C6  
  
 <400> 43369  
  
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 agtacgcacc tgggtccaca agttgttgcg ctagtgcgct actatgttcg atagcggagc 120  
 ggagcactgc gacatgaaat gggacatgtg atggagatag ctggatcagg agctggaaga 180  
 gtggcggttg caacacttat ggcgactgtg cagccaggtc cggaggcagt agtggcac 238

<210> 43370  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-021-Q1-K1-A6  
  
 <400> 43370  
  
 cccaaatccc ttttccactc cgccggacgt cgagagaggc ggtgggtgcg ggacgcgaag 60  
 gcgaagccct agccccctcc ctgccgcgga cgccgatgga cccacctcgc gccgtcgccg 120  
 ttctttctcat actcctgccc gtgctcgccc cgggtggcctc cgggtgtacct ttcgtcgctcc 180  
 tacacgggat tggcgacgag tgccggaacg atgggctgtc atccttcacc aagatgcttg 240  
 gggagtggtc aggctccaag ggttactgca ttgaaattgg aagaggagca tgggactctt 300  
 ggtaaatgcc acttcaagag caggcaaata cggtttgtaa gaaggtcaag aaaatgaaag 360  
 agctcagtga aggttacaat atagt 385

<210> 43371  
 <211> 246  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-021-Q1-K1-C7  
  
 <400> 43371  
  
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 tggatacaga cttgatgctc ttgaacccat atctcctatc gaatctgata aagccactat 120  
 acatgtaact ggaccttaag ctggagatct ctagttgcac atcgctaatac acggctacac 180

aaacgcttca ggctcttgtg ctgccatcat attcatcage ggtcaatccg caggcacaca 240  
tgtcgg 246

<210> 43372  
<211> 430  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-021-Q1-K1-C8

<400> 43372

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ccgcagcatc aggcgaggcc cccctcgcgt gtgaccgata tggcgctgcc gaatcagggg 120  
accgttgatt accccagctt caagctcgtc atcgtcagcg atggtggaac tggtaaaact 180  
acatttgtga agaggcatct cactggagag tttgagaaga aatatgaacc aaccattggt 240  
gtggaagttc atgcgttggg tgtcaccact aactgtggta agatcagggt ctactgctgg 300  
gataccgcag ggcaagagaa gtttggtggc ctccanggatg gatactatat ccatggccag 360  
tgtgcgatca tcatgctcga tggaaacctta aggcttactt acaagaatgt tcctacgtgg 420  
cataaggatc 430

<210> 43373  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D1

<400> 43373

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gagtacgcac ctgactccac gacttgttgt gctagtgcgc tagtttgctc gagcgcgggc 120  
cggagcacgg ggacatgaaa tggcacgtgc ggcggagatc ggtggtttca tggctgcgag 180  
agtggcggtg gcaacgctca tggcgactgt gcagccagct gcggaggcag ccgtggcacc 240  
ggaggctacg acggcggcta cgacgcaggc ggtggagacg accgtgaacg aggcgctgac 300  
cgaggatctg agccggacga tcaacggcgc tgtgcatgct ccgatgaata gtaaggctac 360

tagtgaagat acttg

375

<210> 43374  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D12

<400> 43374

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cgaatagaga gaccgtcttg gagagccacc aatggcttgt tccactgcat ctttagcggc 120  
aacgctgctg gcagtagcgc tgatgttgca ggctgcgctc acagagagga ggaggctcac 180  
cgcgctcgtg caagagccgg ccataaccat gaagtaccac aagggcgcgc tcctgtcggg 240  
cccatcgcc atcaacttca tcttgact 269

<210> 43375  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D3

<400> 43375

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aagggcaaca tggacggcgc ccgcatctac gccgagaacg ccatccgcaa gcgcaccgag 180  
cacatgaact acctccgct cgctctcgc ctcgacgccg tcgtggcccg cctcgacacg 240  
caggccaaga tgcaggtcat cggcaagtcc atgcagtcca tcgtcaagtc gctcgactcc 300  
tcgctcgcca ccgggaacct ccagaagatg tccgagacca tggacaattt cgagcgccag 360  
ttcgtaaca tggaggtcca agccgagttc atggagggcg ccat 404

<210> 43376  
<211> 187  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D5

<400> 43376

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cgcgttcaga cggctattgt cttctactca gtggtcctgg aacgttcgct acacttatga 120  
gtcacgcaat gctgactttt gccagcttca gcggtcattc aagagtgttg gcccctcaac 180  
ttatttcc 187

<210> 43377

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G7

<400> 43377

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ttggctgata accaacgggtg ctggctcttg atcttaccac attgatactg tccgcagaag 120  
gatgatgatg acttcttggtg aggctgtcaa gtacaagagc tccttggacg cattccagca 180  
gatccttaag aaggaaggcc ccaagtccct gttcaagggt gctggtgcta acattcttcg 240  
tgccattgct ggcgctgggtg tgctttctgg ctacgaccag ctccagatcc tcttcttcgg 300  
aaagaagtac ggctccggcg gtgcttaaat ggagaaaaat gatgacgaac aagagcagtt 360  
cgctcccggg ccagcccagt caggatctgg tcaagttttt gcctttcata tcgaagaaat 420  
taataattta tg 432

<210> 43378

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G8

<400> 43378

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gagtatgata cagatacacg cactgagacc cgcggaagaa gacagcacta ccgaatgcga 120  
cagtggcttc gacaacgcca gcactagcag cttcgagttc cacggagtgg agaaggcggc 180  
ggcgacgcag aatccagcag ccgggtactt gtccaggcag acttgcattt cctacaagtg 240

gaatgacgca tagaaatgga tcgtgagccg ccagaatgtc agtcagaaga acaacgtcgc 300  
 caagggcgcg ttgcagaacc agacagtaaa ccagatgagc tccgccgcag ccagggcgcg 360  
 cgttggtccc aaaatctctg ctctgtcccg gcagaaaatg aagagagtga atccagcttt 420  
 gtctgtccg cgcagcatatc tggag 445

<210> 43379

<211> 386

<212> DNA

<213> Zea mays

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<400> 43379

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 tatcacgagc tccgtagga actggggcg cttatttgcc ttgagggcca gttggaagac 180  
 ccattgagat caggctggca gcttgattc gtcgaccgtg aggaggacgt ccttctcgtg 240  
 ggcgacgacc cttggcagga attcgtgagc acggtgtcct gcataaagat cctctccccg 300  
 caggaagtgc agcagatggg gaagcagggc ctggagctcc tgagctcggc ccccgcgcg 360  
 aagctcggta gcagctgtga cgacta 386

<210> 43380

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H12

<400> 43380

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 gagcacaggg cgaagaatag catggccgtc gttcgagaat tggttggagt attgaagtca 120  
 acaaaaaagc aaattcaact tgcagaattc aaggaaaaca agtggaccct aaaagactcc 180  
 aacttgccaa taagtcattg cactgatggc agtctactcg atctcaaagg tgacaaccat 240  
 ctgatcaagc tttatcgggg aaggaaactg gaatacgagc gcaaatgttg cagcgctcac 300  
 tctgaggacg tatcagctgt tactgctgta aagttctgtg ctgaacatcc atatggcaaa 360



<210> 43381  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H3

<400> 43381

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cgcgtccctc ctctccagct ccgcgcactc cgacctctc caggcgcgcg aggaggtcgc 180
ggcggagcgc gcgctgtacc tcgaggcact ggcggtgtac gcggaggcgg tggccatggt 240
ggaggagtac catgcccgtg ccggcgcccg caagaagctc aactgctccc cgcaggtgta 300
cgagtctttg gagcaccggt tggccgtggc agaggcagcg caaaggctga ggctcccact 360
gctctctcag gacagggagg tccatgagca cgagatcgaa aagctgagc 409
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<210> 43382  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H4

<400> 43382

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gtcgtcgtca gaggtggcgc acggtgtgga gcagctccag cgccaccacc tcgccccgga 120
cgcgtccctc ctctccagct ccgcgcactc cgacctctc caggcgcgcg aggaggtcgc 180
ggcggagcgc gcgctgtacc tcgaggcact ggcggtgtac gcggaggcgg tggccatggt 240
ggaggagtac catgcccgtg ccggcgcccg caagaagctc aactgctccc cgcaggtgta 300
cgagactttg gagcaccgga tgaccgtggc cataagcagc gcacaagctg aggctccac 360
tgctctctca ggactgggag gttcatgagc acgaaatcga aaagcttgac ccctatatca 420
tgagttcatt c 431
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<210> 43383  
<211> 267  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H5

<400> 43383

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ttcgtcttca gaggtggcgc ggccttgaga gcatctccag cgccaccatc tcgccccgga 120  
cgcgccccctc ctctacatct ccgcacactc agaccttctc catgcgcgcg aggaggtcgc 180  
ggcagagcgc gctctgcacc tagaggcact ggcggtgtac gcaaaggctg tggacatggc 240  
ggaggaacac catgcggttg ccggccc 267

<210> 43384

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H7

<400> 43384

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attcttttgt ggtggaagcc cttttggagg tgggtggcagc agtaggggca gaaggcagcg 120  
aaggggagag gatgtggttc atcctctgaa ggtttctctg gaggatttgt acaatggcac 180  
atcgaagaag ctctctctgt cccgcagtgt tctctgctcc aagtgcaatg gtaagggttc 240  
aaagtctgga gcttcatcga ggtgtgctgg ttgccaaggt tctggcttta aggtccaaat 300  
ccggcagttg gggcctggaa tgatccagca aatgcagcat ccttgcaacg agtgcaaggg 360  
ttctggagag acaatcagcg acaaggatag atgccacag tgcaagggtg ataaagttgt 420

<210> 43385

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H8

<400> 43385

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acagtctttg caaatcattg aagtaatcta cctgagaaga gactgaagat ctttgaacta 180  
 ttatgagctc aacttctacc cgatggaggg acctagttaa gtatttatga gagggcatat 240  
 attgtatcag atcttcatta tggagattga tcaattgtgg ttcacatttc attgatctga 300  
 agaggtgctg ttaatttctt atcattgcct tttgtgttcc cgttatgtgg tttaatgttt 360  
 gattttatag ttccatcttg cttgtgttca gaataatatg gtttaatggg taaccaatat 420  
 gcattaaact tctgactagc ttatgt 446

<210> 43386  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H9

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 ggcggtgctg gacaaggaga cgctggcgct gatgggtctg ggcaacgccg ccgccgcggt 120  
 ggttgccgag tgcgagaagt tcaaggagaa cgcgaggccg ctcaagcgcg ggcgcgacgt 180  
 gtccaaactc aaccacgcgc tcaaggcaca cgcgatccc gccagcgcg ccaactcttct 240  
 cgaagcccga aagaagatga ttgaggcaat ctacgagtac caaggcgagg atccgcttca 300  
 accgtggctg gactgcatca agtgggtgca ggagtatttt ccgaccggcg gcgagtgctc 360  
 agggttggtg gtgttgtagc agcagtgcgt gcggacctta ttggacgacg agcgcttc 418

<210> 43387  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A1

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 tgggtggtggc tatactcatc gatgcatcaa gatctgcaac aactcactg gagcatgcct 180  
 gtactatgat tacactggat cacaggttcg atcctttata ctgtacacac atgatagaga 240

gcttttt

246

<210> 43388

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A10

<400> 43388

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cgggagatgc tggcattatc gcacaagcaa aggcagctca agggtcagct gcgagcattg 180

tgtggctatg actcattgaa tgatgtgttg gattatgggg ataagctgct tttggcacca 240

ccgctgatgc atggggagtg gctccacagg acggcgggtgt ttgtgctcgt agatctcatg 300

gttgttatgg taggtcgccc gaaaggata ttttaaggagt gcgggaagag aaataattca 360

agactccggc tcattcatga tgaacttgtg aagcttggca ttggggatgg tgtgatggag 420

gcagatttgg aacacttaac aa 442

<210> 43389

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A11

<400> 43389

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gagcgggaga tgctggcatt atcgacaag ctaaggcatt tcaagggtta actgcgagca 180

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<210> 43390

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-021-Q1-K1-A12

<400> 43390

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gctgaggatt tcttctgccg cttcgagtat aaatcagcta ctggcagctt tgtaccagat 120

cgtatagcag tgttttgcaa gtgcgagatg ccatacaatc cagatgacct tatgatccaa 180

tgcgaagaat gttctgactg gtttcaccct gcttgcattg ggatgacaat caaagaagca 240

aagaaactcg agcatttttt ctgccagacc tgtacagctg anaatggtaa gatggttgag 300

aattcacatg aagctacagc gcaatcagaa gaaaagctgg tggagtcaaa aaagcggcga 360

aagtgatggc cgtgctgatt aaatttatga aatctatg 398

<210> 43391

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A3

<400> 43391

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acgaatggct aatgtgatgt gttgatcaac tacagcaaaa tggctgagac ccacactgaa 180

tggatgagat tatttggatt gtttggctgg gtaatctcag atgtggttag ttgatggatg 240

cctttttgga gtactccttt tgtttccttt ctagttaagc aggcaggtag cactactcgt 300

atccagagtt tcacggagcg gatgcggagg gggcatattt tgggcagcag acctcagttc 360

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<210> 43392

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A4

<400> 43392

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gaggattcac tccaccatca gtgcaccacg ccaccatccc tgctcaatc aacgtctcat 120

cattacggac gcctataaat gcctaggtgc gtgcggggcac taccactacc atacagggca 180  
 tgactctcaa cccggacaag gataggctac atacggtaac gatggcgcct gtggacatga 240  
 tgagcatgtg cg 252

<210> 43393  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G6

<400> 43393

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 ggttcccggg ggagatgaca acgatctgga gctgaacgcg gagtcccact tcctgagctt 180  
 cgtgcagcgg ttccggcaagt cctacaagga cgccgacgag cacgcgtacc ggctgtccgt 240  
 tttcaaggcc aacctgcgcc gcgcgcgccg gcaccagctg ctggaccctg cggcggagca 300  
 cggcgtcact aagttctccg acctcacgcc ggcagagttc cgccggacct acctcggcct 360  
 tcgcaagtcc cggcgcgctc tcctcagaga actcggggag tcggcgcacg aggcgcccgt 420  
 gctccccacc gatggtc 437

<210> 43394  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F2

<400> 43394

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 cataccgtct agcagccgga ttttaaacag tcttggaac cataaatcgc tactcaagcc 120  
 cctcctgtcc agaatggtga tgctcaggcc caggccttga acgtggcccc tgctgacaag 180  
 tctgggccat gccctcagaa aaccatacat attcgtacat ctgtaacatt ccaccagccc 240  
 aagaccctga ataaggccat ctacccgaag tacccaagaa tcagcactac tgcaagaatc 300  
 aagcttgatc 310

<210> 43395  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F3

<400> 43395

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ccggcggcca tcctgtcgac ctatgccaa ggtccaaatcca gggcaaggaa ggacgcagag 180
agcaaggcca aggcgaaagc agaggactct tcagtgctt ctacttcgat gcaggtggac 240
ggcgctttctg ctgctggtgc tgctgcagag aaggccccgg agccagagcc tacgttccag 300
atcctgacga acccgccccg ggtcgttcca gccaggaga agttcataaa gttcctggaa 360
gacagcaggt acaagccggt gaaggctgcc cctcggg 398
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<210> 43396  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F4

<400> 43396

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tggtatattgg cttggttctt catgtcgctt cactggccac cgagacaaac cgccaatctc 180
aaaggctgcc ataattggtg ttgctgtggg tggacttggt atcctcctga tgatcttagt 240
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gagcaatggt ccaccaagc tggatgacct tcatatgaac atggctcttc atgtctttga 360
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aagtacaagt tataaatgtg ttct 444
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<210> 43397  
 <211> 412

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-020-Q1-K1-F5  
  
 <400> 43397  
  
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 tggatatcgg cttgggttcta catgcgattc cactgaccat cgatacatac cgtccatcta 180  
 aaaggctgac ataattggta tcaactgtgcg tgaacttggt atgctcctga tgatcttagt 240  
 agctgtctgc ttgtcacaca attcacctgt tgataaagat gacactgtga gcaagccagt 300  
 gatcaacggt ccatgcaagc tcgtgatcct tcatatgaac atggctcttc atgtcttcga 360  
 cgatataatg aggatgactg agaacttcag tgagaaatgc atcattggat ac 412

<210> 43398  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
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 aaacgctgac ataattgtca tcaactgtgcg tgaaatgggt atgctcctga tgatcttagt 240  
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 gatcaacggt ccatgcatga tcgtgatcct tcatatgaac atggctcttc acgacttcga 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-020-Q1-K1-F7  
  
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gaaagacaac gtccacatgt tgtaagctat atgtaattgt aacttaggta caaagagtcg 180  
tccctgtgcc gtgctgtcag ggaaaaatag ctgggtgggtg cgctgtttta ctctacaaga 240  
tgtcttatat gatgtacaag atacagacac ttctgggtgt agtgaccttg ttcccacctc 300  
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ttttcgacta tgc 373

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F8

<400> 43400

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cgaaagacaa cgttcacatg tacatagcta tacgctgttc gcacttacgt acccacagtc 180  
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atgtctgata tcatgtacaa gatacagaca cttctgagt tagcgacctt gttcccacct 300  
gagctcttaa agctagacac gctgagtaac tatggatgga actcaattga ttgaatactc 360  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G1

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cgcggcacgg acaccgacca actcggagta ctgaacaagt gcacacacaa gctccaggaa 240  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-020-Q1-K1-G10  
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 accgtccaca ccggcacggg cgtgggcgcc accacggcgc gcgtcctctt cggctctcctg 240  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 catcaacgcc gccaaagggc tccaggacgt gctcaagacc aacctcggcc ccaagggcac 180  
 catcaagatg cttgtgggtg gagctggtga cctgaagctg acgaaggatg ggaacaccct 240  
 cttgaaggaa atgcaaattc agaaccacaac tgcaatcatg attgcgagga ccgctgtggc 300  
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gaagcagtct gagcgggtgca tcgat

385

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<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G12

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catgtcttca cgaggctgaa gcacactttt cccgattcat acagattagg attcaagcgg 180

agaccaccag aatgatagcg aacagaagggt ggttcatggg ggtaatcatg acgaaagaaa 240

atatcgaaga aaaaacgatt gtcattgtaa ggtgttccat gtgcccacac gatgcaagcc 300

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tgcaagatgt t 371

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<211> 417

<212> DNA

<213> Zea mays

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cctggcaagg gtatccttgc tgctgatgag tccactggca ccattggcaa gcgcctttcc 180

agcatcaatg tcgagaacgt tgaggagAAC cgcctgccc tccgtgagct cctattctgc 240

tgccctggtg ctctccagta catcagcggg gtgactctct tcgaggagac cctgtaccag 300

aagaccaagg atggcaagcc ttttgttgat gtcctcaaag agggaggcgt cctccctggc 360

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<210> 43406

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G3

<400> 43406

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cgctcacgct ccatctgctc cggctctgcg ccgctcgcgc agcctcaacc ccacgcccgc   180
cgtccggccg caccctaaat cctggcaggg ggtgctttcg gcgaggcacc cgtcgaacgc   240
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ggctggcgct gacgcggcgg ccgggaggaa gcggctggcg gtgttcgtgt ccggaggggg   360
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<210> 43407

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G4

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gcaaggaaca ggatcgtaag gaggaggtgg aggcgtaggc ggaggagagg aagaccagc   180
agccgccgta gcaaggccag ggcctcagac tgtcactcgc caacggcagt ggcaggtctg   240
gaatgttgcc gatgtcaaac atgtcagcta atccttcaca gcttacaatt ttctatggcg   300
gatcagtatg tgtgtatgac tcagtccac cggaaggcgc tcaagcaatc atgcttatag   360
ctgcagctgc agcggcagcg gcagctacca aaagcagtgc tgtccctact gttaagccta   420
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<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G5

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gcatggaaca ggatcgtaag gaggaggtgg aggcgtaggc ggattagagg aagacccagg 180  
agcctccgca tcaaggacat ggctcaaac tgtcactcgc taacggcact ggctatgtct 240  
ggaatgttgc cgatgtcaaa catgtcagct aatgcttcac agcttacaat tttctatggc 300  
ggatcagtat gtgtgtatga ctcagtgcc aacggaaaagg ctcaagcaat gatgcttata 360  
gctgcaactg caacggcagc ggagttacc aaaatcagtg ctgtccctac tgta 415

<210> 43409

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F12

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tggtggccag cgcgattaga ctctccttt tgcccaacct tgtgacatat atgcaacttc 180  
tggtggccga actgcagctt gagaagcaga aaaacgagat gaaaaggaag gaagcttggc 240  
gtgtttatgg tgccttgctg tgtgctgcaa gcaaatgctt gtatgatcgg ttgaaactat 300  
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<210> 43410

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-020-Q1-K1-C8

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 gactcagttc tctgaaagca gtgatgttta cagctttgga gtttttcttt tggagcttat 240  
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 ggtaatttct actgacatgt agctgtaagt tatctagaaa ggaaagttat ggagttctgc 360  
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<210> 43411  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-020-Q1-K1-C9  
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 tgaaagaaag atgaaaacgt gaactgaatc ttaacgtccc tgtatcctcc tccttctgct 180  
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<210> 43412  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-020-Q1-K1-D1  
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 ggggtgagac ggctatggcg tgctgctccg ccgtcctgca ccatccgctg ggcttctcac 180  
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 cctcggtcgt ctccgcccgc cctctttctc gcgccaggat ctcaccgagc tgcacctact 300  
 ccggtggcgc cagcgtgcc cctggtcctg gggagctacc cgtggcggcg ctccgacggg 360

tccttgaaat gccgggtgcg cac

383

<210> 43413

<211> 365

<212> DNA

<213> Zea mays

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cgccagcgac cgccgcctcg gcgtgcagct gcagacgac gccaccgact tccgacgggt 180

gttcaaggtc cagcacaagc tctacatcgg gctctcgggg ctgccaccg acgcccagac 240

gctgtatcag cggctggtgt tcaggcaciaa gttgtaccag ctgatggagg agagggacat 300

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atact 365

<210> 43414

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-D3

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gaccagacta ttactatcaa actaaacgcg cctgcgagca cgccagatgg acgactagaa 180

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<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-D4

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tcgcattcgt ctgcctccta gtttttaggtt ttgggagtg caatgaaact ccagtagagc 180  
ttccaaagaa acttatcatc ggccccccaa gtgctgatag aatccaactt cctgatggac 240  
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atcctcattc ttttctttca tcaaggctag caggaatccc tggaattagt gcatctcttt 360  
tggaagaatt tggagtacga cttgtgactt atgatcttcc tggttttggt gagagccatc 420  
cacacg 426

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tcgcattcgt ctgcctccta gtttttaggtt ttgggagtg caatgaaact ccagtagagc 180  
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atcctcattc ttttctttca tcaaggctag caggaatccc tggaattagt gcatctcttt 360  
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<210> 43417  
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<212> DNA  
<213> Zea mays  
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agctatactg acccttgcta atatcagggt ctggaagtgg cattaaatca ccattgaaaa 180  
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<210> 43418  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-020-Q1-K1-D7  
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<210> 43419  
 <211> 310  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-020-Q1-K1-D8  
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 tacagataca ctttttgata gcacccttcg tgaatcacct gaggatgatc tacatggacg 240  
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gactgatgac

310

<210> 43420

<211> 381

<212> DNA

<213> Zea mays

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<400> 43420

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ccactaataa aaaggcacct gtctttgatc atgggataga gctttggagg gataccatag 180

ttcgggtctcc tacgattcag gggaggttgt ctgacatgct cgtcgaactc atacatatag 240

aaaggaccgg tgatgtgata aacagaggct tgatgaggac tacaactaaa atgttgatgg 300

atctaaggct gtctggttac caagacgatt ttgaaaggcc atttcttgaa gtctctgcta 360

gtttctatag tggggagtca c 381

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<400> 43421

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atatgtatca gatttgtaga gctttggctt accttcacaa ctgcgtagga gtgtgccaca 180

gagatataaa gccacaaaat attctgggtga accacatac ccatcagctg aagttgtgtg 240

acttcggcag tgccaaagtc ttggtacaag gggaaccaa tatttcatat attgtttcta 300

gatactacag agccccagag ctcatatttg gggctactga gtatacaaca gctattgacg 360

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acagtgggtg cgatc 435

<210> 43422  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-E5

<400> 43422

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 gggggaactg gtcgtgtcta catgcgagct tgttgagagg cgccacatac ggtccatcta 180  
 aagcgctagc ataacgggtga gcatttgtgtg tcaagtgccg atgttcgtgc tgatcgagc 240  
 ctctgacttc ttgtgagaca tcgcacagct ggagaacgac tacagtgtgg ccaacgccga 300  
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<210> 43423  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-E6

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 ggtggtactg gccgtgacga cagtcgagct tgtcgagagg cgccctgatac gctccatcca 180  
 cagcggtagc tgcccgatga gcatcgtgtg gcaagtgccg aagttcgtgc tgatggcagg 240  
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<210> 43424  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-E7

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aaggagatca cttcccttgc accaagcagc atgaagatca aggtcgttgc accgcctgag 180  
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ttataggggt tcacacgttc ctcgtcgcta cctagtctca aattatgtcc cctacatttc 360  
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<210> 43425

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-E8

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cctgatggcc aagtgcctgg agataagacc gcgggacatc acgatgatgc cttcagcacc 300  
ttcttcagcc agactggtgc tgggaagcac gttccccgtg caatcttcgt tgatctagaa 360  
cccactgtga tcgatgaggt gcgcactggc acgtaccgtc agctcttcca ccctgagcag 420  
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<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F11

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ggagaagcag cggcggagcc ggaggagggga gagcgaagat gcgccgcgtc gcgctgttgc 120  
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 tcccgaacgg caacttcgag gatggcccgcc ccaagtcggc gctggtgaac ggcacggtgg 240  
 tgtcggggcgc ccaegccatc ccgcggtggg agacgtccgg cttegtggag tacatcgagt 300  
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 tgggcaacga ggcg 374

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 gcactgcagg atgtacagg ctaagagagc tgcttcgctc agggcgaagc gccggcgcc 180  
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 caagaacaaa ctagttgagc agattaggag ggaaatctgt acgatgaagc taatacagca 360  
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<210> 43428  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-020-Q1-K1-B1  
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 gctaccacc aaattactta agcacctcac tgcgcacctt aagaagctag atgacgccct 180  
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cgacaagtcc aaggcaccca aggtcgcgcc caatcccaat ccctcttcga a 291

<210> 43429

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B10

<400> 43429

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gctcacgtgc tccctgcttg cgcggtgggc gagaaggagg gcgacgcggt caaagcgtat 120

gccgcgaacg cctccagccc gatggcgaca atcagcttcg ggggcacggt cgtcggcgctc 180

aagccggcac ccgtgggtggc ctcttctctg gcgcgtggac ccaacgggct cgtcccggag 240

attctcaagc cggacttcat cgcaccgggc gtcaacatcc tcgccgcgtg gacgggcgcc 300

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acg 363

<210> 43430

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B11

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ggagagactc agggcctatt tgcttgcgcg ctgggctaga atgatggcga cgctctcaaa 120

gcatatgccc cgaacgcctc catcccgatg gccacaatca tcttctgcag cacggtcgtc 180

ggcgtcaatc cggcaccgt gatggcctcc ttctcggcgc gtggacccaa cgctctcgtc 240

ccggacattc tcaagcctga cttcatcgca ccggtcgtca acatccttgc cgcgtggact 300

ggcgccacgg ttccgaccgg cctgtatggc gatacccgcc gcacggagtt caacatc 357

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<212> DNA

<213> Zea mays

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ggagctatga ttgggtacac tccaagagga atgcaacttg ctcaagaaac tatagagaag 180  
atgacttcaa gaaatTTTTT cttgaatgcc aagatgggaa ctgatctcct acttgcagct 240  
gcccgtagaa cggctgggtg atatacgact gcccaattatg tctgggatct cctgcaaagc 300  
cgtaaaatca ctccaacact tactgctgtt gaagcatacc acaaggtct gacagcgcta 360  
gagattcctt ctgacgatcc acgacttctc aatgttacct atgttttgga c 411

<210> 43432

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B3

<400> 43432

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gcgtcgggaa gactcaccac ttccgcttg gcaaccttat ctgctactgc tccgacatct 180  
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<210> 43433

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B4

<400> 43433

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acttgctcag gcatacaatc acgcaagctg tgttattcag tcaactgggag aagaagacat 180  
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tgcttacttg cgtttacagg taacttgggtc tgataatccg ttcctgcaaa tttatctttc 300  
 tgtttctcag gcacatttga attccgaaac ttggagagtt ctacctggct tttttaattt 360  
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<210> 43434

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B5

<400> 43434

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 aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaggg tgggagatta 180  
 aaaaaaacaa agttaatttt ctggttcaat taaataaata gatcctttat attagacact 240  
 aaattaaatg cttacttgcg tttaaaaaa acttggtatg ataaaaacct tctgcaaadc 300  
 aatcttatat gtttttaaaa aacatttgaa ttccgaaact tggagagttc taaatggctt 360  
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<210> 43435

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B6

<400> 43435

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 tcttgcaaag ttggtgatgg ttggttatc cacctttcac aggctgccct aggggaacca 180  
 aagaaagcga gtgagaatgc cattgtgtct gtcaaaattg atgataagaa actagtgcct 240  
 ggaaccttat cagttgagaa gcacctcaa atctcttggtg atctggtatt tgataaagat 300  
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<210> 43436  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B7

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ttcttcacac ctttcttcat tcgaggcgct tttaaaaatt caccaagaaa tcctttcccc 120
atcccaaaca aattatcata aaaaatcaac ttcctcaata aacctttcca ctttcccctt 180
tccaaactta tctgctactt cttccactgt aaccaacctt ttatcttcac caatttattc 240
ccaacgacac tcttacccaa cacctttttc acttttataaa ccatacaatt taattggcta 300
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<210> 43437  
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 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B8

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tgaacgagta cctccccgag gagcgcgacc cggtgagggtg ttgggtcacc gtcgccgcag 120
tcgcattcgt ctgcctccta gtttttaggtt ttgggagtgg caatgaaact ccagtagagc 180
ttccaaagaa acttatcacc ggccccccaa gtgctgatag aatccaactt cctgatggac 240
ggcatctggc ttatcaagaa caaggagttt cagctaacag agcaagattt tcaactgattt 300
atcctcattc ttttttttca tcaaggctag caggaatccc tggaattagt gcattctttt 360
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cacacgt 427
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 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B9

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tcttgatct agcaaaccct gccaaagggtg ccgctgaagc aattcttgcc aagtcagaat 180  
ctactgctcg tggaatgaga ttcttttcac atgccatgac aactgaaagc atttccaatg 240  
cttctagcct gaaacttgca tagcaatata tctaagcatt ttcaaattct gcaccaaaga 300  
caaaatacaa tgcttatttc aagatataag tccccaaaat tccaacatt tttttt 356

<210> 43439

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-020-Q1-K1-C1

<400> 43439

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tcgccgtcaa gaagttcacc aagatggcgt ggcccgatcc caagcagttc gcggaggagg 120  
ccaagggcgt cggaagctg cgccactgcc gcctggccaa cctcatcggc tactgctgctg 180  
acggggacga ggggtgctc gtcgccgagt tcatgcccaa cgacacgctc gccaaagcacc 240  
tcttccactg ggaaaaccag acaattgaat gggctatgctg tctgagagtt gcatactaca 300  
tcgctgaagc actggagtat tgcagcactg agggaaggcc tttgtaccac gacctatatg 360  
catatagggt cctctntgat gagaat 386

<210> 43440

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-C10

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cgcacaggtc ctatgcttgc ttgcatgtgg cgcaaggcga tgctcggcgc ggtgatcggc 120  
ggcaagccgt cgctggaacg cgctcggcgc aacgt 155

<210> 43441  
<211> 254  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-020-Q1-K1-C11  
  
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cctatagcat aaagcccttt ctaaaccctc taagaaaact ataacgctgt atttacttcc 180  
cattcttctt tttattaata cctaaattca gtcttcaaac aaatacgaaa aactgaactt 240  
aatctcaacc ttcc 254

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<211> 432  
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<213> Zea mays  
  
<223> Clone ID: LIB3076-020-Q1-K1-C12  
  
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agcttcacct gcaattcctg tcgattgcga tgatggtgag ctttactca acttgaaatc 180  
tgcatcattg tcatcttcag ctggcagcaa ggggctagat gagttacctc ccgcatttaa 240  
agaagcaa at caaacctgg atggctcaga agctgttgcg gccaaagtcag atgctcctga 300  
aattggttgt caggtacctg gttcctctcc attacatgac aaaggtagcg aatcctcggg 360  
gtcgccagtg aaagacactc ctgaggctgg aatcagattg ccaggatcag ataactcaac 420  
tattgcattt tt 432

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<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-C2

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acgtctaaca tgtcagccta tgcctaccac cggaagtcag acaactcaga cagagagctc 180

caacaggagc tggaaaagga ccgcatgcag taccagccag cacagcgggt catggacgcc 240

aaggtagtat cacagatgtc ccctgacttg aggtcttact actacatacc aaaaggtgtc 300

ccaaaggctg atccccgaga tagaaccgct ctgcattcta gcatgattca tgggatcgcc 360

cctttcagtg gcattgcagc tgttggaggt ggctacaaca aggtcaatg 409

<210> 43444

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<212> DNA

<213> Zea mays

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acttcctaca accacgttta acatgtgagc ctatgcctac caccaggagt cacacatctc 180

agacagagag cttcaacagg agctggtgaa agaccgaatg cagtaccagc cagcacagct 240

gtttatggac gccacgctg tatcacagat gttccctgac ttgaagactt actactacat 300

accatatggt gtcccaaagg ctgatcccg atatagaacc gctctgcatt ctatcatgat 360

tcatgggatc gcccctttca ctggctttgc a 391

<210> 43445

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H10

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tgaacaaaca ttcctattgc tacctgagct aacgcaacac ttttgactta tacacatagt 180  
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<210> 43446

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H11

<400> 43446

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ttctgctcca agcccgtcga cgtatcccgc ttccggcgtca tctacgccgg cgcacagaag 180  
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aacaccccga cctgcttcgc catctacgtt tgccggaccg acttcgagga cctgctcgcg 360  
cagggcggac tcgcccgggt cgagaagaag aacgcgcg 398

<210> 43447

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H12

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cctgctggga gtttgcata gcacctacat gagtgcctat acgagagctc gctttcatgg 300  
gtggagaggt ttgacataat cgctggcgtg gtccgcgcac ttgtgcactt gcatcgctac 360

ggtataatcc actacaatct gaagtccagc aatgtcttgc tagacacgaa tggtg 415

<210> 43448

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H3

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ccgccggggc ctctccgcc gcgcctccgc cgtcaccggc ggccgccagg gcaactccgg 180  
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cgaggatacc gacctcgagc gctctaccag gaagtccgag gaggccgtcc tcgccgacct 360  
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<210> 43449

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H4

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gggagcggcc ggtcgcaagg ccggcggggc gaggaagaag tcggtgacga ggtccgtgaa 180  
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gcagcgcgtc tgcagcgggtg cccccgtcta cctcgcggcc gtactggagt acctcgccgc 300  
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<211> 54

<212> DNA

<213> Zea mays  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-019-Q1-K1-H8  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-019-Q1-K1-H9  
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<213> Zea mays  
  
<223> Clone ID: LIB3076-020-Q1-K1-A1  
  
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gtggcagtaa taattgcgtg ggggtgtagta aaataataag cacgtttgtt gagttgtaat 240  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-020-Q1-K1-A10  
  
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<210> 43455  
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<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3076-020-Q1-K1-A11

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gtttgtcaca tggattttctc cttggacatt tgcaatctct gggttttgat ttcctaaaaa 300  
gcatcagtgt gattgctgta tgccccaagg gaatggggcc atcagtcaga agactttatg 360  
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<210> 43456

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A2

<400> 43456

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gccgctctgc tgccgtttgc tccagctgcg gccgaccggg gccatggctg gcatcgacct 180  
caacaccgtg gaggaggagg acgaggagga ggcggaggcg ctgcctttgc ccggaccgg 240  
tggccgtggc gccgtgtgcc tggagctgtg gcacgcgtgc gcgggccccg tcccgcgct 300  
gccgcggaag ggcagcgccg tcgtgtacct gccgcaaggc cacctcgagc acatcggcg 360  
cgacgcggcg cgaggagc 378

<210> 43457

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A3

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gggctgcccc ttctgcatcc acgggagtag tgttgagtgc cgaattgaca tgaagaatct 120  
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 cactgagcct attgatatat atagtgaatg gattgatgag tgtgagcgtg tcaacactgt 240  
 tgaaggcgac gatgatgcgt gagcttgccc catgcgatga aactgttacc tacaatcgta 300  
 atgtaatgtg ctgggtattct cgaatgccat agcccatagt cagccatggc ttggaataac 360  
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<210> 43458

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A4

<400> 43458

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 cagtagggac gcctataaat gcctaggtgc gtgcggggcac taccactacc agtcagggca 180  
 agactcgcag cccggacaag gtaaggcgac gtacggcagc gatggcgccg gtggtcatga 240  
 tgagcatgtg cgtcgtcgtg tcgctggtgg cgggtgcagct gcaggccacg agcagcgacg 300  
 gcgccacggt cacaccgtcc gtggtgctgc cgccgatgac ggtgccccgt gtgcgcggcc 360  
 ggttgagggc cggtcgtaag ctgcatgccg tcgacgccgt cgggatgggc attgactccg 420  
 tgggtgc 426

<210> 43459

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A5

<400> 43459

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 gatgtgaccc tcctgcagcg gtgctccacg cgaccaccgc cgtcccaata tacgccagta 120  
 tagtaggtac tcctataagt tcctacttgc gtgaaaacac taccactacc agtcatggca 180

tgactcagag tccggacatg tgtaggcaac atactgaaga gatggctcct gtcgtcatta 240  
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<210> 43460

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A6

<400> 43460

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 gaggagacgc gccaccacca gtgcaccacg ccaccacccc cgccccaatc aacgccgcag 120  
 cagtagggac gcctataaat gcctaggtgc gtgcggggcac taccactacc agtcagggca 180  
 agactcgcag cccggacaag gtaaggcgac gtacggcagc gatggcgccg gtggtcatga 240  
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 gcgccacggc cacaccgtcc gtggtgctgc cgccgatgac ggtgccccgt gtgcgcggcc 360  
 ggttggaggc cggtcgtaag ctgcaggccg tcgacgccgt cgggatgggc atggactccg 420  
 tgggtgcg 427

<210> 43461

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A7

<400> 43461

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 aaccggggcg gcggcaaggt cgggcaggcg gatcggctag ggcaggacaa gggcggggcac 120  
 gcgaagctgg cgtgccccgt ctgccgcacc ccggcgccccg acatcaagtc catgcagatc 180  
 caccacgagg cgcgccatcc caagctccct ttcgagccgg agaagctcgt caacctgcac 240  
 tcctccaccc cctccgccgc cgaggccacc acctccaagc ccaagccccg ggtccgcggc 300  
 agcctcaaga agtagctggc tggcttgctt gcctgactgc ctggggtaat tcccttcgat 360

ttcaatccca tccaccgacc cgatctacaa tcaatcaaag tac

403

<210> 43462

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-G9

<400> 43462

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catagatttc tttggtggag gaaggatgaa ggcaacaaga ggaggttaca ggtagcccaa 180

tagatctact gctgttgagg gagtttatgc aaagctgagt tgctgctcgt tggctttatt 240

tagagatggc ttcagctggg gttgaccctt ctgggtacaa gaacagcatc atcaccagca 300

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ttgaagcaac cataattaat ggg 383

<210> 43463

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F4

<400> 43463

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ctcgggacca tcgtacatc agtgcttctg ctatattgag ttgaccgact atatccgcag 120

acgcatgtca tcgtctactt aacctgcaga tctatagctg tttctacctt ggggagtagc 180

ttcataacat ctggaatacc attgaatgtg acacttcacc gatcgaactc actaatttac 240

cacattcatg ggcactcaac ctgcatgcaa taaatgtatc actactcaag tgactaacta 300

ctacacatg 309

<210> 43464

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F5

<400> 43464

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aagggtcgaa ggtcgattca gcgccgtcct caccggagct tgtccacgcc cccttggtccc 180  
ttcgcgcccc ctcttctctc ggagaccacc acgctgtcct tgagcccgtc ttctcgggaa 240  
acggcgcttg acgccctgca agcgggacga ccccgctccc catctacggt gaatattcgc 300  
ctgtgggacg agcccatccc acttctcctc acatccaacc aaacgccagc gagaagagga 360  
ccgtcccgtc ccgttacggt tcgtctctcc acccctagtt ccccaaaccg gcgcatcgat 420  
tcatcgaacc cttgccggag a 441

<210> 43465

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F6

<400> 43465

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agccagtacc aaattattca tcaggaagat tttgggtcac cagggcaaaa gaaacatgaa 180  
gatgctatth cacaacagcc acagatattg actcctgtcc agactactgc tcttagcatg 240  
cataatgaaa aggtatctga aatggacagt cagaatgtc cttcaagcat tggagggttg 300  
agcatgcaat caggggatcc gagtgctaac attatagcag agcaaagcct gggtaaata 360  
cttcagagac atgatecaat ttctcatatt cctggggccac aaacgcttcc gatcaccaca 420  
caaccacaga atgttacgtc ttcattcgca 450

<210> 43466

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F7

<400> 43466

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agggctatcc gaaatgacta tcgcgatatt aatgcttact accaggaccg acaagcttta 120

cagagtcaagt acgatctgaa tgacgatcgc aatgccaaact cagcagctgc acgttacaca 180

gcacgaacac tagttcacat cagccacgaa actaaactca cttccagact ac 232

<210> 43467

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F8

<400> 43467

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ccttctttga ctgtgtatgt atatatatgt atatgggtta ttccattaca aaatagatcc 120

aatacataat ctaaaaattc ccacattaaa acacaaaacc gaactacatt gaaatctaac 180

cgattttata ctaaaaaccg gcttaacggc atcctaaaac ataagtgtta cagtgatata 240

aatacccaac taaccagatt acacatctta ccaggcctgt tttcaactac tagccttttt 300

atcttcttgc agactctaaa catcatgaat cattaac 337

<210> 43468

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F9

<400> 43468

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agatggctgc ttcatacctt tagtaccgct gcttctcgt ctggctcacc tgctacacac 180

tacgaccact acgtccacaa cgccttcagc acctacgctt aagtcctaga tcataatatc 240

a 241

<210> 43469

<211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-019-Q1-K1-G1  
  
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 ggcacggaca ccgtcgtcct cggcgtcgag aagaagtcca cacccaagct ccaggactcc 240  
 aggtccgtgc gcaagatcgc gtgcctagac actcacatag ctctggcggtg cgcgngctg 300  
 aaggcggacg cgcgcgtgct catcaaccgc gcgcgggtcg agtgccagag ccaccgactc 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-019-Q1-K1-G10  
  
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 gcccagtatg atttatcacg cggctcgatt agttgggttg cttgaagcat atgcggtgta 300  
 tgatccagag attggctact gccaaggtat gagtgatctg ttgtcaccta tcattgcggt 360  
 aatggaagag gacgatgagg catTTTTGGTG ttttGTGGGT tTcatgagga aagcaaggca 420  
 caacttc 427

<210> 43471  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-G11

<400> 43471

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cacgaagctg ggggtgaaag gcttgggtga ctccggcgctc aagtccatcc cgtccatctt 180  
ccaccacccg ccggaagccc tgagcgacat aatttctccg gcgccgcctc tgccgtcgtc 240  
gtcgccctgc ggcgccgaca tcccggaggt ggacctctcg gtgacgcggc gcgaggacct 300  
agtcgagcag gtgaggcacg cggccgggac ggtgggcttc ttctggctgg tgaaccacgg 360  
cgtggcggaag gagctgatgg gcggcatgct ccgtcgtgtg cgccagttca acgagggccc 420  
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<210> 43472

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-G12

<400> 43472

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ccagggccgt ggcggcgggc tagggaggtc tagcgcgggc ggcattcggt tcgtgacgcg 240  
cgaggccgtc agcagcgtgg tctcccgctc ggagtcgctg gtcaccggcc gcggagccaa 300  
catgcgcgtg acaaagagcg gtcgcgggag cgttcgtttg gaggccgtgt cgcgcgggag 360  
ctcggggggc cggctggcag tggccgcgga gatcttcagc gtggcgccgt cggtgctcct 420  
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<210> 43473

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-G3



<400> 43473

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ctgactctag ggagttcaaa catcctgctc gagacgccga tacagaagca cctccgagtt 180

acaaggaacc tgatTTTtgag actcgtgctt tgcaacatag cagagttaag ctcacctggg 240

atgatgatga acctgaacgt aagaaagtct tgaagctaaa gttcaatgat gatcagctag 300

atgagcttaa catgtattta acaagtgatg acagcgcgtc agataatgaa agtgtagacg 360

attctgagga tgaatctct 379

<210> 43474

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-019-Q1-K1-G4

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agattatgTTt gtgttccatt ctccatacaa caagcttgta cagaaaagct tCGgtcgttt 180

gtactacaat gatttcttga gaaactgcag cacggttgat ggagagtcaa gggaaaaatt 240

ggcacccat gcaggcttgt catctgaaga aagctaccag agtcgcgacc ttgaaaaggc 300

atctcagcaa gtcgcaaaga atctgtacga gtccaaggTTt cagccaacaa cattgatccc 360

aaaacaagTTt gggaatatgt atacacgcgtc actctacgca gctcttgcat cggntgtcca 420

cagtagacat g 431

<210> 43475

<211> 442

<212> DNA

<213> Zea mays

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actcacatag ctctggcggtg cgcggagctg aaagcggacg cgcgcgttct catcaaccgt 360  
gcgcggggtcg agtgccagag ccaccgactc accgtcgagg accccgtcac cgtcgagtac 420  
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<210> 43476  
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<213> Zea mays  
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cgtacctacc atatgcatat actctactct gcaacaccag ctcatgatta actagttcga 240  
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attaagact tatttaacaa tctataac 328

<210> 43477  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-019-Q1-K1-D9  
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gacgggatgt gtataaataa acccagcatg ctgttttttt tttcgtcgtc atcgtgtgct 360  
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<211> 298  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E1

<400> 43478

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accactgctg tctcaaattg aacatttctt atacactgca atccatcttg ctgttacatt 180  
tgtagtccac cccgcactga ttttcgcata cctgtgttaa gctggttact tatcaacaca 240  
tcatgacttt cactctatct tacacgatcg atactacatc gaagttccat ataatatc 298

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<212> DNA  
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<223> Clone ID: LIB3076-019-Q1-K1-E10

<400> 43479

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cctcctcctt gtctcatcc tcgccccgct cgtctccgcc gtgcccacgc caagaagcct 180  
gcgcttgggg agccaccagc agcagcaccg gccggctctg aagctcagtt cctctcagga 240  
gacgacggcg atcgcggcgg cgatgatgaa cacgggcagg ccgacggcga ggggtggacgt 300  
ggaggtgaac gactaccagc cgtccggccc caacaaccgt cacgaccac ccaagggctc 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-019-Q1-K1-E11  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-019-Q1-K1-E12  
  
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 cgcacgggtg cgtgcaccag cccaccttca agatcttctg caaggacgac gatgggtact 180  
 gccttacgt gctctacagc cacacggtgc tggaccctga cgaccggtgc gactagcacc 240  
 aatactggtt catggacatg cgcttttagca cctatgtcaa ggactaggag ggcaaccctg 300  
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<210> 43482  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E2

<400> 43482

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ggtcttctc tggcagctta aggttgtgtt gccacttcta tgtggcttat gttagtgtca 360  
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<210> 43483

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E3

<400> 43483

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gacatttacc attcgatatg ctaaaaatct acataaaata ttgcaccaca gagctccggc 120  
actactgctg catccaacca atgctgctct gactatagta catcatatcg ccgatgtact 180  
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<210> 43484

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-019-Q1-K1-E4

<400> 43484

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gcccacaagg ctaagcacca accatggcct tcggagctct cgtcacgtcg aggctggcca 180  
ggtccggccg cacccttgca tctgccgttg ccagggtcc cgttgcccag cggatagcac 240

ctgctctgtt ctccaggttt ggagcagtag ctcgtcttct cagcacaaag ccagccgcaa 300  
cagatgtcat aagtatcgat ctaggcacaa cgaattcctg cgtctccgtc atggaaggaa 360  
agacaccacg ggtgattgaa aacgcagaag gcgcgaggac aacaccctnc attgttgcca 420  
agaatcagaa tgggtg 435

<210> 43485  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E5

<400> 43485

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gacagattcc agtcttggtg cttagaatct acgtagaatg tagttccgca gggctccgcc 120  
actaccgctg tgtccaacca ctgctgggtg tacttcgctg cttctactcg acgatgtact 180  
ggatcgacgg ccggcagcga tgttccgaca ctttcaatgc gtttgcgcaa gtgctacgga 240  
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gacatactgt gcgtattgag etc 323

<210> 43486  
<211> 230  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E6

<400> 43486

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atcgtatgct ttccggccga ctacattgct agccaaacac gctgtcggcc atagccctct 120  
ccaagaaaag taagcaataa ctacgactgt ctgagttcac actacattga agctgtccaa 180  
aagctggcgc agcctttcat ttatcactga ccacggaagc attgaccatg 230

<210> 43487  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E7

<400> 43487

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gccatatcat atcatacacg ctcttcaact acataccata tgctacagca acatcactcc 120  
atgtacaaat cataaaaaca acgccattct aactctccag cttcgatttg accatcgaca 180  
agcgctaccg caccttttac tctactcgat cacaatactc cttatcccct acttcaaggc 240  
atcaccattt gaagctgacc aagcgctatg acatcggtgc ggacaaactg tctattgcca 300  
ttactcaaac catcctaaca ccctacctgt ccgaacaaat 340

<210> 43488

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E8

<400> 43488

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ccgaccaata tgctacaact attgaaggct accaaagcta ttctcttgaa gaaggaccac 120  
atcgatgccc aggccacaca acgctccaag tactcataat ttccgg 166

<210> 43489

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-019-Q1-K1-E9

<400> 43489

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gcagaagaca atacaaagat gtccaagatg gcggaggaga aggcggcggc agtgggcgga 120  
ctcgaggag ccggggcggc ggacgcggcg cagcagcagc agctggcagc aggggaggcc 180  
gcggcggcgc ggggtgcggcc cgtggagacg ctgcttcgcg cggcaccgct ggggctctgc 240  
gtggccgcca tgaccgtcat gtcctgtaac cagcagagca acgagtacgg cgccgtcgcc 300

tactccgacc tnggaggctt caagtacctc gtctacgcc aaggcctctg cgctgcctac 360  
 tcgctgggat ccgcgttcta cactgccgtg ccgaggcctg ccaccgtgtc gcgctcctgg 420  
 ctc 423

<210> 43490  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-019-Q1-K1-F1

<400> 43490

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 accggtggga agaagaagat gaagaaggcc acttcgctct ccgagctggg ctctgacgcc 180  
 ggcgacgcgt cgtcgggctt ctccgccct gtgtccggcg actcgtcgac gccgacgtcg 240  
 cagcaccacc ggcggaggct gaccaagggtg tcggtcacgc gcgcgggcaa cgtggggatg 300  
 gccatcgcg agaccatct nacgcgcgac ctggccgacg agatcgcgct ggtggacgcg 360  
 gtcccgga agctccgcgg ggagatgct 389

<210> 43491  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-019-Q1-K1-F10

<400> 43491

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 aagcaacaac acaatttcca agtatgactg agactgtaag aggagggata ctagcagacg 180  
 caatgggtct tggcaaaact gtgatgacca ttgctctgat actttccaat cctagggggg 240  
 agttctctaa ctgtataaaa ggagacacaa ggtatctagg agatcggtcg accagaggat 300  
 acacttcaac atctctgtt agaggaggta cccttgttgt ttgccctatg tcattattgg 360



gccaatggaa ggatgagttg gaagcacatt cggcaccagg agctctntct gtgtttgtgc 420  
attatgctgg 430

<210> 43492  
<211> 428  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-019-Q1-K1-F11  
  
<400> 43492

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gtagctacaa gtatgttaga ctatcagaac tactgcaacc tatgttcata actcctactg 120  
ctcaagcaac aacacactat tccaacttga ctaatactgc aagaccaacg atactaactg 180  
actcactgtc tgttaccaca actgggatct cgattgctct aatactttcc actagtagca 240  
gcaatgggtc taactcattc acttgagacc caaggtcata tacgagatac ggcaatcata 300  
ggatacacct gatcactactg tcaactgagct cgtacatcta gcactctgtc gtatatgatt 360  
attcggccaa tctaatacgc atcaaacacgc acatccagga caagtagctc tttttgactt 420  
agagcatt 428

<210> 43493  
<211> 432  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-019-Q1-K1-F12  
  
<400> 43493

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gcgggtgttc gcgggcgagc tgggccccga ccgcgggcgac atgtacatct acagccggga 120  
cttcaaccgc acggtgctgg cgctggggcg gcagatggcg gcgctggagg gcacggaggc 180  
gggctactgc acggcgctccg ggatgtccgc catctcgtcc gtgctgatgc agctgggtggg 240  
cgccggcggc cacgtggtgg cgtcgcggtg cctgtacagc gggacacacg cgctgctggc 300  
ccggttctctg ccgcgcgctc tcgggggtgcg cgccaccttc gtggacgccg acgactaggc 360  
cgctcgtgcgc gccgcggtgg tccccggcga gacgcgggtg gtgtacgtgg agaccatgtc 420

caacccgacg ct

432

<210> 43494

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D8

<400> 43494

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caccatataa caaggctcag atacacaccg aacacaccta ctgcgaatca cagcatca 118

<210> 43495

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F2

<400> 43495

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gacgaaagga gggagttttg agaagcataa atggctccta aagccgctcc tgtcaagaag 120

ggtgatgcc aagcccaggc cttgaaagtg gccaaggctg tgaaatctgg ggcaggcaag 180

aagaagacca agaagattcg cacatctgta acatttcacc agcccaagac cctgaacaag 240

gccagggacc cgaagtaccc aagaatcagc actactggaa gaaacaagct tgatcagtac 300

caaattctca agtaccatt caccacagaa tctgcaatga agaaaattga agatacaaca 360

c 361

<210> 43496

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C11

<400> 43496

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tatgtttcta cgacatgccc cctacgaaaa atatccatac acccaaatta catcccaact 120

ctactacttg attgacttcc aacacgtacc tgtccttaac caatgaattc caccactaag 180  
aaactaaaac ctctatctca tgaaaacacc agacttctta tcgaacataa cactgacatc 240  
aacctaccta taatgaccat aaaatcccac ttaaacattc accctctttc tatcttgaac 300  
atcacgacca caacttaccg gactacg 327

<210> 43497

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C12

<400> 43497

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aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa tggcatatcg ttaaaagt 158

<210> 43498

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C2

<400> 43498

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ggagggggcga ttgcagccgc tgatgtggag taccgttgct tcgtcggcgg acttgcttgg 120  
gacaccatca acaagtgcgt ggagaatgcc ttcgcctgct accgcgagat cctcgactcc 180  
aaggatcatca ccgaccggga tgacggtgag gtctcgcgga ttcggcttcg ctaccttctg 240  
ctacgagaac tccatgctcg actctatcaa gaacatgaac ggcaaagagc tcgacggtcg 300  
taacatcacc gttaaccatg ccagtc 327

<210> 43499

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C3

<400> 43499

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caccgagagg attatctctg gtttcgctgc ttatgtaatg cttttgaaac gatgaacgaa 120  
gctacatgct ctacagatgc tttgagaagt ataacagata acctac 166

<210> 43500

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C4

<400> 43500

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tcagggtagc caagtactga acgtagaaca taatcaaatt ataaaggcat atcagagtat 120  
gggacagggg gaccttccga agttcacagt gatcattgct caaaagaatc accacacaaa 180  
actcttccaa gctgattcac cagagaacgt tccacctggg actgttgtgg actccggcat 240  
agttcatcca agacagtatg atttctacat gtgtgctcat gccggaccaa ttggtacttc 300  
aaggccaacc cattaccatg tggtgcttga tgagattggc ttctctgcag ataatctcca 360  
gaagctagtt ctttactgt catatgtgta ccagaggagc accactgcga tttctgtggg 420  
ggcaccta 428

<210> 43501

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C5

<400> 43501

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aaggcaccga gaaaattatt actgctttta ctgcatatgt aatgcttatg aaactatgaa 120  
tgaatctaca tgctctacac ctcatcttat aagtatacta aataaactac aggcct 177

<210> 43502

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C6

<400> 43502

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ctttcacaac catcactgaa gccatgggtca cggtgaccat aactgaacg tataacataa 120

tcaaactata aacgcataat atactatgac acacggagac cttccgaagc tcacagtcac 180

catctctcac tagaatcacc acacctaact cttccaagct tattcaccac agaacgttcc 240

acctgaaact gtatttgact cctgcatact tcataccaaa cattattatt tctacattga 300

cactcatgcc agaccaattg gtacttcaaa gccaacccat taccatgtgc aacctgatga 360

gattggcttc t 371

<210> 43503

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C7

<400> 43503

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aaggcaaccg agccgatcga gacgacgaga ccgcgattgc tagctagcta gttcggggcag 120

cgagcgggtgt gagacggcta tggcgtgctg ctccgccgtc ctgcaccatc cgctggggctt 180

ctcactcacc ccgtgctccg cctcccgagc cccaccgcgc atccagcgcg tggggcgtggc 240

aactccctcg gccgccttcg cccgccctct ttctcgcgcc aggatctcac cgcgctgcac 300

ctactacggt ggcgccagcg ctgcccctgg tctgggggag ctacccg 347

<210> 43504

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C8

<400> 43504

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tgattttgac acatctaata caccaatatt tataactccaa ataacctacc tatgttcata 120  
agacttatac agcattcata aacttgcata ctttattgaa cgtttctatt aacacagata 180  
attcactatc aagaagaatc aaaactctaa tgaatgacta tctacatact cagcttatgg 240  
aactatttca aagcctatca ttctattttc gcaccataac tcaatactac aaatctaaaa 300  
tactcaacat ataagatgct taactacttt tacttcatca acatctcttg gtcgacaccg 360  
atatctccct taatcctct 379

<210> 43505

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C9

<400> 43505

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gaatacaatg ggggtacaatc gtacagtatc ttacgagagg tgaagtaggt gataagggtc 120  
ttattggaca tatggtagaa aattgtggaa atctcagtgg actaaatgca tcaactgcat 180  
tgacggatat tattgacatc atctatcaga cgacaggatt gtcaggatga tgactaagtt 240  
catctttttg acttgaatga caaagaatgg agcagtgtc 280

<210> 43506

<211> 125

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D1

<400> 43506

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acggagccga gcgagacgac gagaccgcga ttgctagcta gctagtccgg gcagcgagcc 120  
gggtg 125

<210> 43507

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D10

<400> 43507

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ctggtgtctc gctggactcc acagattcgc aaggccgcac agctcttcac atggcttctg 180  
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ccaacatgga gaagaacaca ccactccact gggcatgcct taatggacgt atagaggtaa 300  
tcagggcttt gatctcagcg ggggctagcg tgagtgtctt gaacagccac gagaaaacgc 360  
caatggacga agcggtgacc acaggcaaga tggacgtgat cgacgcgacg ggtgcggcag 420  
tagc 424

<210> 43508

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D12

<400> 43508

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ctggataatc tctctcttg tctacactgt cttcatcact ctgcacactg ttggaaccta 180  
ccgatctcat gctctgactg taaagagttc gcgggaaccg ttggatcttt ccgtcatctg 240  
gccactgacg gtctgatatg ttctgtgatc ccccgacccc ctgtttctac tgggtacacgg 300  
agaaaccgac atatgatata cctgttctct cgcgacactc ggaaacacac gtgtttatc 358

<210> 43509

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D2

<400> 43509

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aacggggccg agcgagacga cgagaccgcg attgctagct agctagttcg ggcagcgagc 120  
 ggcgtagagac ggctatggcg tgctgctccg gcgtcctgca ccatccgctg ggctttctcac 180  
 tgaccccgctg ctacagacta ccgagcccca ccgcgcatatc agcgcggtggg cgtgggaact 240  
 tcctcggacg acttgcgccg tcctctttct cgcgccagga tctcaccgag ctgtacctac 300  
 tcccgtagcg ccagcgctga ccctggtcct ggggagctac ccgcggtgc gctgagacg 360  
 gtgcttgaga tgccgggtgc gcacatgcg cccggtgct acgacgctg gagcgacg 419

<210> 43510

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-019-Q1-K1-D3

<400> 43510

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 cgcagatgta ctgctgctg ctcgagacct acatccgga tggcaccgag aaggaccggc 120  
 tcttccgcg catcgaaacc gtccgcgccg tacgcccga ggacgactgg gccatgcgct 180  
 ggatcgacgg ctgtgagcg tttgccgagc gcctcgttgc cttcgctgc gtcgagggca 240  
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 gcctcacttt ctctaatgag ctcatctccc gggacgaggg cctnactgc cacttcgct 360  
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<210> 43511

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D4

<400> 43511

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 cacggatgta atcgcttctg ctagagacct acatctgata cagtacctat aattaccggc 120  
 tgttctagac tgtccaacg atgatcaccg tatgcactac ggattactga cccatgctct 180  
 tgatctaccg ctcaa 195



<210> 43512  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C10

<400> 43512

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gatggtcgct acgaaggtgc accttcaaaa gtcgtggatg cgccaaaatt ggatgcggaa 120  
tctctttctg tatcgctttt gagagccgca ccgctctcga atcaagaaag gcttgtgcta 180  
aggaagcaag ccccttcaa at gaagaaaaga cctgactttc catagggagg aacaatgcca 240  
tcaccggagt tgcaaaaacc ataaaaacgc acttcaagaa gcacctctt gctatcgtga 300  
acatcaagaa cagagcggac gggactccga ttcagcagct gatatcgga ctcgaggagg 360  
cgacaggatc ggtgctagtgc tcacgagaaa ccaacaaagt gatcttgtag 410

<210> 43513  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D5

<400> 43513

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aacagagccg agcgagacga cgagaccgcg attgctagct agctagtctg ggcagcgagc 120  
ggtgtgagac ggctatggcg tgctgctccg tcgtcctgca ccatccgctg ggcttctcac 180  
tcaccagtg ctccgactgc cgagccccac cgcgcattca gcgcgtgggc gtggcaacta 240  
cctcggtcgg ctccgccccg cctctttctc gcgccaggat ctcaccgcgc tgcacctact 300  
ccggtggcgc cagcgcctgcc cctggctcctg gggagctacc cgt 343

<210> 43514  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D6

<400> 43514

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agcttcacag tcttttgtgc agcttgggtt cttgatggcg ctgcctatga tgatggaaat 180

tggcttagag agaggattca gaactgcatt gagtgacttt gtacttatgc agctccagtt 240

agcatctgtg ttcttcacat tctctcttgg gacaaaaact cactactacg gaaccacact 300

gctacatgga ggagctgaat atagagctac agggcgtgga tttgtgggtg tccatgccaa 360

gtttgctgag aattatcgat tgtattcgcg aagccathtt gtgaaggga ttgaactgat 420

gattttgctt attgtgtatg 440

<210> 43515

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D7

<400> 43515

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agcaatgcag gctgatcttg aacatgtgtc atacattgca ctccatattg ctatcaatag 180

tctagtttac cccgcactga ttacgtcat acatgtgtca agctgcttac ttatcaaaac 240

atcatgactt ttactctagc tcacaatctg gatactacat ctcaagttcta gataagatca 300

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c 361

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A3

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gacagggcctt ctaaaccaca tagggcaagg gaaaatctca aggatatcca ataactcggc 180  
aatatattac tttgtgtcac cctatcaggt tctgacctg cgttgtcact ataaggatta 240  
caatctgcat ccctaatt 257

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aaaggaagat ctcaagaaga tagataactg gcaatatatt agttgggtca ccctatgggt 180  
tcggattctg ggggtggcact attaggatta ccatcttcat tccttaattt ctttaaggct 240  
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<212> DNA  
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 <212> DNA  
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 tcggcaggac gcaaggtaag cagggtcaatg aacaagtcaa tatcctgggt cggaaggcc 180  
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 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A9

<400> 43521

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 gtcactgata tatctatcac aacttaatga ctgccaagga gtcactgatt cctgataata 180  
 ccataattcc aataaacacc atgatcatca taggcgttta ctgattgcac tctgtgtcga 240  
 acgtcttata aatccttata accattccaa actgcaaata gaacacccat tctcgaaatc 300  
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 <212> DNA  
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<223> Clone ID: LIB3076-019-Q1-K1-B1

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 caagctgacg aggggtgaaga actccttcaa gctgccggcc accgacgcca agcccaaggc 240  
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 acctgcattg tattagcacc gagaagagga aggtagaagt agagaggggtg gagatgctca 180  
 agaaagaggt ggttgaactg aaggaagtca ttgagggaaa ggactttgtg cttcagggtc 240  
 acaaggaaca gaaggtggaa ctcttctcaa agatcaggga gttgcaggaa aagctctcag 300  
 cacaagtgcc aatcatcttg taagatctat ctgtgatact ttttagaaga ttgaatctaa 360

gcataatgtt gccatgtccc atgagcagca gaaggggtcc cgcttcagtg aag 413

<210> 43524

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B11

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gttcctgccc tctccgacaa agctgagggg gctcgaggct atactgacta aactcctacg 180

ctttatcgac ttccagaaca tgcacaatgc caattcttac gcatgctcag gaagtgtccc 240

caagaatcaa gactatgggt tcaggatgaa cacactagca gcagacgacg caaaggacaa 300

gaattctcaa tagcaggcat ttgttgatac tgctgattgc aaagcatcag atattgatgg 360

tcatga 366

<210> 43525

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B12

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ggcgcgtatc cggactaccc tgccaccgt cgacgtaggc ggacgcttcc ttctccgccg 180

ggtcgcgggg cgccagccgg cgaggcgcg cgtggtcgtg gagggccggg ggggcagggg 240

ctggtcggag cggcagatgc agcagcagcg ccgcgcgccg ctgctgccga aaatcgagga 300

cgacggcaac ccgcgattcg tcatcttcat ccgcaccgcc aatgtctact tctggtaccc 360

gctcaacatc atcacgggcg gtacgacggc gaagatcatg etc 403

<210> 43526

<211> 85

<212> DNA  
 <213> Zea mays  
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 aatggatgat ctcaggaaga tagataactg gcaatatatt agctgcgtca ccctatcggt 180  
 tcagtttctg tgttgctact ataaggatta caatctccat cccttatttt ctgaaggctct 240  
 tcaagtaata agaagagtgg ctcaattatt gccagccca atgtactcac cgctgaaact 300  
 gaatcttggtg cagatactga acgagctgtc cacttgagct catatgttct atccaattcc 360  
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 <213> Zea mays  
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 acaaactcgt taccaacttt cacaagcagc ttactgcgca gctcaagacg ctcaactgtcg 180  
 acgacaagct gacgaggggtg aacaactcct tcaagctgcc tgccacogac gccaatccca 240  
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327

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<211> 396  
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caccttactc aaccgccaca ccctgtcgat actcatggat ctttgcaacc tctaagccaa 180  
ccccgatgca ttggcctccc tcgtacgcta gctctcctgt gctgctcctc caaccttcac 240  
cgatggttac ctcttcttg agcaacgtcg accagtaatc agactcgtca attacgccca 300  
cgtactccta cggccttcac cgcttctact gagctgctaa aaagtctgaa tgcaaccggg 360  
gtagttgttc aagcatgaca agatcttgct gctgga 396

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<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B8

<400> 43530

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cgaccttgag cccactgtca tcgatgaggt tcgcactggc tcgtaccgcc agctcttcca 240  
cccagagcag ctcatctcgg ggaaggagga cgcagctaac aactttgccc gtggccacta 300  
cacggttggg aaggagattg tcgatctatg cctggaccgt gtgcgcaagc ttgcagacaa 360  
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 <212> DNA  
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<223> unsure at all n locations  
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<223> Clone ID: LIB3076-019-Q1-K1-C1

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<223> Clone ID: LIB3076-019-Q1-K1-A2

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cggcaccgtg agcatgggct aaggctaaga acgaagcggg ccaacacaag gtccgccttc 180  
caaggaagaa accagggctg aggtccctga aagccgatct tcaattctgc gtacgacgta 240  
tcgggcgcta cttgaagaag ggccaatact cacagtacgt cgggtaccggc gcccatgact 300  
acctcgacgc tgctctcgaa tacctcaccg ctcaggatct ggaactcgac ggtaatgctg 360  
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<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G2

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atttcacctg ggaaagtggc ggggggggtg tggaggtgga agagaagatg gcggtccctg 180  
taaactgctg ctgcagtaaa taatccctgg aatttgtctc cctgcattta aacaaaatat 240  
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<212> DNA

<213> Zea mays

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tcaggtgact ccagtggatg aagaaatgtt cagttccatg gaaagctcca gttctgcaca 180

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<223> Clone ID: LIB3076-018-Q1-K1-G9

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 cttttggtta ctaacacact gcaggcattg ccagaaatag ctcaaaagat tacaccgctg 360  
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<223> Clone ID: LIB3076-018-Q1-K1-H10

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 tacagaactg atctatcgaa cgattttggc ctattatata cagatgctac actactacat 180  
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 <212> DNA  
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<210> 43544

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H5

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<210> 43545

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H6

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ccggtcgcaa ggccggcggg ccgaggaaga agtcggtgac gaggtccgtg aaggccgggc 180

tccagttccc cgtcggccgc atcgggcgct acctcaagaa gggccgctac ggcagcgcg 240

tcggcagcgg tgcccccgtc tacctcgcgg ccgtcctgga gtacctcgcc gctgaggtcc 300

tggagctcgc cggcaacgct gccaaaggaca acaagaagac gcgcacgctc ccgcgccacg 360

tgctgctggc gatccgcaac gactaagagc tcgggaagct gctgaccggc gtgacca 417

<210> 43546

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H7

<400> 43546

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tcgccgtggc tgcccatgcg cctctctccg gacgcgcctg cgcgcccctt ccgcgcctc 120

tacctccgcc gggcgctctc cgcccgcgcc tccgccgcca ccggcggcgc cgagggcaac 180

tccggccccg tccgcgtccg ctctcgcgcc tcgcccaccg gcaacctcca cgtcggcggc 240

gcccgcaccg cgctcttcaa ctacctcttc gcgcgctcca agggaggacg ctttgtgctc 300

cgcgtctagg ataccgacct cgagcgctct accaggaagt ccgaagaggc cgtcctcgcc 360

gacctcgct 369

<210> 43547

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-018-Q1-K1-H8

<400> 43547

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gcgatctcgc aaggacgacc aggtgcaggt cttgcgctgc acctacaagg gccgtgaggg 120  
 caaagtgggtg caggtgtacc gccgtcgctg ggacatccac gttgagcgga tcacccgcca 180  
 gaatgtgaac ggctgcaccg tgaacgtggg catacatcct tacaaggcca tggttacaaa 240  
 gctgaagctt gacaaggacc gtatggctct cctcgaccgt aagggtccgtg gccgtcccg 300  
 cgacaaggct aagggcaagt ttactgccga cgacgtcgac gacgtgatg gtggcgccgc 360  
 cgncactggt gcgtatctgc aagagatcga ctatgcgcat tctgggtgatc tgatgggtgcg 420  
 tctaccgcct attactgctt at 442

<210> 43548  
 <211> 125  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H9

<400> 43548  
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 cataa 125

<210> 43549  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A1

<400> 43549  
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 tcaaggccaa gaacggcggc gccttcccca aggccgacaa ggccgcccgc gccgtggaac 180  
 ccaagttcta ccctgccgac gacgtcaagc cccgcgttcc cagcaccgc aagcctaagc 240  
 ctaccaagct caggtcgagc atcacgcctg ggacggtgct gatcctcctc gcagggcgct 300  
 tcatggggaa gagagtgggtg tttctcaagc agctcaagtc cggcctgctc cttatctatg 360  
 ggcctttcaa gatcaatgga gtaccgat 388



<210> 43550  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A10

<400> 43550

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ccaagcccggt cgacgtctcc cgcttcggcg tcatctacgc cggcgcacag aagaacgtcg 180  
ggccctccgg cgtcaccatc gccatcgtgc gcaaggacct catcggcgcc gctcagccca 240  
tcacgcccgt catgctcgac ttcaagacgc acgccgacaa cgcctacctc tacaacaccc 300  
cgacctgctt cgccatctac gtttgcggtc tcgtcttcga ggacctgctc gc 352

<210> 43551  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G12

<400> 43551

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ccgctcagag atatccaggc atacatcatt aacagcctgt cacgcgtacg gctggtgaac 120  
ccagacgatg actcctagca cctcatgatg ctcgtaggtc acctgctgct cacttacatt 180  
gccagcttca aaggcctgta ctggaccacg tcatagccgc acttcagata tgaattcatt 240  
cctggcccta gctttcataa gcacatggat aaccgctcat actagaacta gctcgcatgt 300  
gtccaaactt ttgccataat cgctggctt 329

<210> 43552  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A12

<400> 43552

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aactttttgca ttctagaagg ctcgatgaca actgatcatg ccatcaactta caccacaat 120  
actattgatg gaccctcagt ccattacttg atagctcgca gtgctgccaa ctttaacatc 180  
attcccaaca gcaccgctgc ttccaaaact atcggaatgg atcttctga attgaatcgc 240  
aatctcactg gcatatcctt ccgtcatccc accaccaatc tgtcatatgt atacctcact 300  
ctaacaatcg agaatgtgtc ctcctaccaa taaatcaata actctat 347

<210> 43553  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E11

<400> 43553  
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tctacaaacc gggtaactga gaagagcgca agatgttcga tttacagcac cacggtcaca 120  
cacagacaga acccgtcggc tcaactgaatg gtgcaccagc ccaccttgaa gatcttctgc 180  
aaggcctacg aggagtactg gcttacctgt cgcaacggca acgtagggct accccctggc 240  
aaccgcgcgc actagcacca tcaactagtag tagtacatgc gcttcaacac ccatgtcaag 300  
gactaggagg ccaaccctgc gtttaccctg aactacaaag ccaactgggct cgcca 355

<210> 43554  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E12

<400> 43554  
gcgccaaccc ttcggtgaaa atctcagtgg ttattcgaag catcatgact catctgattc 60  
agggtatatg cgttcaggac cccacgctac tgtttgtatt caacgaagcg tgtgacatct 120  
gaatcttcaa ccaatcgaca gtgttcacag cctagacact tgtaccatgc caagagctaa 180  
gtcaacaaca cactgatcag atatcaacga agatgatcgc cactctgtcg gaacttttgc 240  
atctagctcc actaattttc cagctgcctt cgctgaacac acctatacaa atgcttctac 300

tcacactgtg cgagtgttat attctgcatg gattctgacg tgagcagcag gcattctgaa 360  
cccgtatct caatctgaag attcggtaga tcctgaac 398

<210> 43555  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E2

<400> 43555

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gcactggagc tggagggaag gcgaagaagg gagcggccgg tcgcaaggcc ggcgggccga 120  
ggaagaagtc ggtgacgagg tccgtgaagg ccgggctcca gttccccgtc ggccgcatcg 180  
ggcgctacct caagaagggc cgctacgcgc agcgcgctcg cagcggtgcc cccgtctacc 240  
tcgcgccgt cctggagtac ctgcgcgtg aggtcctgga gctcgccggc aacgctgcc 300  
aggacaacaa gaagacgcgc atcgccccgc gccacgtgct gctggcgatc cgcaacgacg 360  
aggagctcgg gaagctgctg accggcggtga ccategccca cggcggcgtg ttgccaaca 420  
tcaaccgggt cctgctgccc aagaagacgg 450

<210> 43556  
<211> 65  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E3

<400> 43556

atccaatctt ggaagacct ctcagacct ataagttcac ctccagccat gcacgccacg 60  
ggcac 65

<210> 43557  
<211> 257  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E6

<400> 43557

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 tgggtacttta ttgaaggcta acaacgtatc cgccggtcgc aaggccggcc gtcccatgaa 120  
 gaaatctgtg acgaggtccg tcaaggccgg gctccagttt cccgtctgcc gcatcgggcg 180  
 ctacctcaaa aatggccgct actctcagcg cgtctgcagc ttgcccccg tctacctcgc 240  
 ggtcgtcctg taatacc 257

<210> 43558  
 <211> 329  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E7

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 ttctacgtct tctcatgaac gcatcgcccc tctccacctg ctgatacttc gccatctctc 120  
 catctctctt tctctctgag atagtctttc gaatccatct ctagggtctt tgtttctccc 180  
 catectcccc ccaccctacc ctccaccata cacaagtccc cttgttcaat cctacaagac 240  
 aagcatccat gtcacgtca cgcccgagct cgagccccga cagcaactac acgactgacg 300  
 agcgcaagcg gaagcggatg ctgtccaac 329

<210> 43559  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F1

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 ccgcatcggc aagcacggga agcatcccgg aggtcgcggt aacgccggtg gcatgcacca 180  
 ccaccgcatc ctcttcgaca agtaccatcc cggctacttc ggtaagggtcg gcatgcgcta 240  
 cttccacaag ctccgcaaca agttctactg ccccgcggtc aacatcgagc gcctctggtc 300  
 gatggtgccc gccgacaagg cggcggaagc cggcggcgac aaggccccgc agatcgacgt 360

cacgcagttc ggctacttca aggtgctcgg gaagggggtg ctgccgccca agcccatcgt 420  
cgtc 424

<210> 43560  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F10

<400> 43560

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gcttctctgg cgctttacca aaccttaacc ggatcggttc ccatgccgag cttaaacgaa 120  
tgactggact gactacaact ccatatccaa ttgcacttga acggtcgcta ctagtactcc 180  
agctaagcca ctgcttctct gtaacctct aacctccatc cctattatac ttccacaatc 240  
tactaccgaa cctataact gtataccagg atactaatgg cctctaccag atcgtgcgac 300  
tacagcatac ac 312

<210> 43561  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F12

<400> 43561

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gtgactcaac atcacactta gcatagtatg actgagactc acagaagagg gatactagcc 180  
gacgcactgg atgttcgcaa tactgtgatt accattgctc ttatacttcg caatcctaca 240  
cgtgatgtct ctaactgtcc tgtacgagac accacacatg catgtgatcc tgctactagc 300  
ggacacactt caacatcctg tgacctacga ggtaccctac gactatgccc tatgtcatct 360  
atcgggccaa tgcaaggaag actcggatgc acat 394

<210> 43562  
<211> 359  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F2

<400> 43562

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ggaccagtac aatcttcaag aacaacctca ttaacctoga ccacatctac cctcatccac 120

cttcactatc tcaagcacca taaccattcc acaaccttca cttaccccac cttctttacac 180

taacacacca tcaactttca acccctacca tccctttctt ttcagaaacc acaacttcca 240

ctactttcac aatctccaaa acattttcta ctcccacaat ctcaacatcc agcctcatcc 300

ctcaatcctt cccacogaca ctacttttta atccttcaac tacaagacc cacatatct 359

<210> 43563

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F3

<400> 43563

caattttcga accgaccac gcattccactc actcctccaa ctccacaatc gcccttttaa 60

gattcacaca catacttaca ctgtatggga cttgtataat acttaagacc aactcaaaa 120

tattggtgct aaatatgtac gccaaactac ttataaaaca aacgactttg cttataatag 180

gacaacc 187

<210> 43564

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F4

<400> 43564

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gaactgtcta ctgtccatgg gcgacaacaa gtccaacgag aacatgatcc agctgatcgc 120

caccaatgca tgcattgaact cgctgacatc caatgctgta ttgttcgtgt gcaccgctag 180

cctcaagccc agctaggcca actacttcct cgacgactcg ccctaagtag taaggcta 240

acaaagtctc tcctacgtct actatgagct cgcgcttgcg aaccatccac attaagacaa 300  
ggactcctct ttgcactact tgtgacaata ggaaagagcg ttgccttccc a 351

<210> 43565  
<211> 215  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F6

<400> 43565

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aaccacccca acaccaatgg gcacatgcta cttttaagg accccatccc acacaataaa 120  
aacaacaaaa cactacatac accaaatata cactaacaca aaaccaccca accacacaac 180  
acataaacat tacaaaacaa acacaaaaaac acaaa 215

<210> 43566  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F7

<400> 43566

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aaaacaaatg acttggctgg tgatgggaca accacttcgg ttgtccttgc tcaagggatg 180  
attactgagg gtgtaaaagg tgtagctgct ggtgctaata cagtgcagat caccctgggt 240  
attgagaaaa cagccaaagc actagtcagt gaactccaaa agatgtccaa ggaggttgag 300  
gacagtgagc ttgctgatgt tgctgcagtt agtgcgggaa ataactatga aattgggaat 360  
atgatagctg aggctatgaa aaaggttggg cggcaggag tggtcacact tgaagaagga 420  
aagagtgctg aaaataaacc 439

<210> 43567  
<211> 284  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F8

<400> 43567

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tacacaagtc cattttacta tgcttattat gcttgcgaaa attctgccat ttacacactg 120  
caaaagactt gaatcagtat tggacgctca tatgcaaagt gcttgaccat tacactatta 180  
ctctcagagg ctaatacttg acttcctcac tccaacatac ttatctatca attcatgcat 240  
gctgaaaaca tccataacaa ccttcatata acttcatact atat 284

<210> 43568

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F9

<400> 43568

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ccggttaccg ttgggattcc tgagggtctc cggggttccg ctctcgtcgt gagcggatcg 120  
agatggcggc ctccgatgtt gactaccgct gatttttcag accgtctcgc ctggggccaca 180  
gacgaccact ctctccacaa cgccttgagc acctacggtg aggtcctcca gtccaagatc 240  
atactcgatc ggcgagacgc agaggctccg ctgcttcagc tacgtcacct tctacacgga 300  
cgacgctatg ctgaacgctc atcgacggca t 331

<210> 43569

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G1

<400> 43569

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ccccggtcga tccaggcagt ggcagcggct ctggcgggtcc tgggtgctgga gggggccggc 120  
acatgcatca cggccgcagt gctcaacacg gaccgtctcg cgctgctggc gctcaagttc 180  
ggcgtctaag acgacccggg cagcgcgctg tacacgtgac gtaacgcgga cgccgacccc 240



tgcgctggt gtcagcgtca catg

264

<210> 43570  
<211> 246  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E10

<400> 43570

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cgtactctcg atcaatcata caacaataga acaccaagcc taaaatccac tctttcttct 120  
gccctactgc ctactactcc ttgtctcat cctcactcg atcatcatatc tcgagccac 180  
tccaacaatc ctacaccatg ctatccacca tcagcattac ccaccacctc tgaatctcat 240  
ctcctt 246

<210> 43571  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G10

<400> 43571

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cggcctggcc aattcgacgg acaggggctc cgcactact gctgctgcta gagaggcacc 180  
cggctaccag tccgcctcgc cgcttaactc cgacaactgc tgatgccttg gcagctagct 240  
ggcgtccca agtagtagag aacacggcca atgtatccat agatctgctt gtagcggagc 300  
ttaatgcctg attttccctt tgctaatatg cattggatga gcccgtagcg caccgtagtc 360  
gtatctaaag ctggcgcttct gagtcggttg gacc 394

<210> 43572  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G11

<400> 43572

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tggaggaagg aggagggcaa catgaggagg ttacaggtag cccaatagat ctactgctgt 180

tgagggagtt gatgcaaagc tgagttgctg cgcgttggtt ttcttttagag atggcttcag 240

ctggtgttgc cctttctggg tacaagaaca gcagcagcac cagcattggt gccgaaaagt 300

tgcaagatca catgaacgag ctaaagatta gagatgataa ggaagttgaa gcaaccataa 360

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<210> 43573

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C3

<400> 43573

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cctggaattt catccgtgtc catgcaaaat actgattcag ttaataggca gtcattcttcg 120

ttcagtgttc gagatcgacc aacacctaat ccttctggtt atcctacaca atcttttgac 180

tctagtatgc ctagtgcttt cacaggcctt cagggtcaaa ctcaatacat gcttgcaggc 240

gctggcagtt catcagcgaa tgagttaccc aatgtggagg ccaagcttct atggaacaca 300

tttccagcaa ataggatccc tctggagacc ttcagctcag gtttacctgc tcggccgatg 360

ccaccctta caccttattc agctgttgct actcagcacg ctacgatgaa c 411

<210> 43574

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C4

<400> 43574

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acaataccgt atccgactac attcacacat cattcaaacc aacacttaac ctactaacia 120

cctacctttg ttcataacac tagatcaacc tacacataat cctatactat aacctacata 180  
 tcctttcaca tatattatcc actatcctac aacattcact atacaatcaa acttaataca 240  
 tactgctcac caccttccat ttcacatcaacg aataattatc acaatatgca actcaagctt 300  
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 cctcttttac ttcaactctt tataccttat t 391

<210> 43575  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C5

<400> 43575

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 ccaacaccta atccttctgg ttatcctaca caatcttttg actctagtat gcctagtgtt 180  
 ttcacaggcc ttcaggggtca aactcaatac atgcttacag gcgctggcag ttcacagcg 240  
 aatgacttac ccaatgtgga ggccaagctt ctatggaaca cattttcagc acataggatc 300  
 cctttggaga accttaactt aagtttacct gctcggtcga tgccaccctt tacacctt 358

<210> 43576  
 <211> 464  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C6

<400> 43576

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 cgaaggcacg gccactgcaa gggctgtgga agactttgaa cccttaactg ttatcagaac 180  
 tacctgtcca tgtggcaatt gggttaatga aatgacaagt tttctttgtc aagcaaagct 240  
 gtatggtttg gttcctgcta tcccttgacac agatcgattc tcatagtgtt atgtcattgt 300  
 tgattaagag ccatgaactg aagtgtacta cgcctttggc catactgtga gtcttgacca 360

tgaaccggtg tcagcaggaa gcatgctagt gctgaattgc attatgcgaa tgggtgccca 420  
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<210> 43577  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C7

<400> 43577

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 ttcagtgttc gagatcgacc aacacctaat ccttctgggtt atcctacaca atcttttgac 180  
 tctagtatgc ctagtgtttt cacaggcctt cagggtcaaa ctcaatacat gcttgcaggc 240  
 gctggcagtt catcagcgaa tgagttaccc aatgtggagg ccaagcttct atggaacaca 300  
 tttccagcaa ataggatccc tctggagacc ttcagctcag gtttacctgc tcggccgatg 360  
 ccaccctta caccttattc agctgttgct actcagcacg ctacgatgaa ctctggcttt 420  
 cctgcaaacc tgtata 436

<210> 43578  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C8

<400> 43578

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 agacttgtgc agcattgaga agcttgcata ctgggtgaa ggtgtcaata cacacagttc 180  
 agtcagtatc aaggaggatt gaaattctaa gggatgagga gctgcaccc cagcttatgg 240  
 agttgattca agggctatcg cggatgtggc gcgccatggc tgaacgccac aaagctcaga 300  
 agcgcaccat cgaggacgct aaacttctct tctccagca ccaccctcgc gccgccacgg 360  
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ccgagatcca ggcctggcga gg

442

<210> 43579

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C9

<400> 43579

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ggaaaaacgt acaggatggc cgagaggtga agttgttggc aagtttctta ttggagaggt 120

gtttggaaat tgttgtcgac tcaagggccc agatgcattg acaaaattca tgggtattat 180

tcacaacgct ataggaggac aggattatga gaagttccct ttttcatttt ttgacaagaa 240

tggaaagtat gtgcaggcct tattgaccgc caatacaagg agcaaaatgg atggtaaatac 300

cattggagcc ttttgtttcc tgcagattgc aagcactgaa atacagcaag cctttgagat 360

tcagagacta caagaaaaga agtg 384

<210> 43580

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D1

<400> 43580

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tattggatat gacgaaaaga ccatgtacat ggctgcatat gattggaggt tatctttcca 120

gaacactgac gttcgtgatc aaactttgag cagaataaag agcaatattg aactcatggc 180

agcaacaaat ggtggaaata ggggtggtggc gatccacac tccatggggg tcctctatct 240

tctgcatttt atgaaatggg tcgaagcacc tcctcccatg gtgggcggcg gtggtccgaa 300

ctggtgtgag aagcatatta aagctgcaat gaatattgga ggacctttct taggagttcc 360

caatgctgat gctgggcttt tctcatctga agc 393

<210> 43581

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 43581

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ttacaaatgg aacaaaaaac aaagatgcgt gctttgggtcg ttttttattt tccgattcgg 120  
gataagctcc cccctttttt ttcctgggtg cattttgctg cacactgggtg gaacctcccg 180  
atctcactct ctgcctgtaa agagtctcgg ggaaccgggtg gatctttccg tcactctggcc 240  
agtggccgctc tgatttggtc gtgatctccc cgaccccggtg tttgggctgg gacaaggaga 300  
aaccgccaaa ggagagattt gttttccgcg gacactcgga aacacaagtg taatcccccc 360  
taccgtttctc tctgctcaag tgtcgccatt aatggccagg cctctnccat aaagcaccat 420  
caattcctca tgcaaaaa 438

<210> 43582

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D3

<400> 43582

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acaagcaaag acacccaact cgtacatcct tcaacaattt gaaaatccag ctaacccaaa 120  
gattcactat gagactactg ggctgaaat ctggaaagct acagcaggaa aaattgctgg 180  
ccttgatatc ggtatcgga caggaggtac catcaccggt actgggcat acctcagaga 240  
gcaaaatcct aatgtcaagc tctatggtgt ggagccagtg gagagtgtg ttttgaatgg 300  
tggaacacct ggaccacaca agattcaagg aattggagct ggttttatcc ctggagtctt 360  
ggatgttgat ctccctgatg agactctaca gttttcaagt gatgaagcta ttgag 415

<210> 43583

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D4

<400> 43583

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ggcaaggggg gagacccaac tcgatcatcc ttcaacattc tgaatatcca tgtaacccaa 120

atattcacta tcagactact cgacctcaaa tcttgaacgc tacaatcacg aaaaaatgct 180

gactcttcta tcattctataa cgtacagaga cgtaccatca ccttgtactc ggcgatacct 240

cagatagcta aatcctaata tcaagctcta ttgtatggac ccagtataga gcgctcttta 300

caatgggtcca taacctcaac catacaccat tcaactgaata gcaactcgtt ttatcccttg 360

agacttggac ttgagatctc ctt 383

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D5

<400> 43584

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ggggcaagga gagacacca actcgtacat cttcaacaa ttgaaaatc cagctaacc 120

aaagattcac tatgagacta ctgggcctga aatctggaaa gctacagcag gaaaaattgc 180

tggccttgta tctggtatcg ggacaggagg taccatcacc ggtactgggc gatacctcag 240

agagcaaaat cctaattgtca agctctatgg tgtggagcca gtggagagtg ctgttttgaa 300

tgggtggaaaa cctggaccac acaagattca aggaattgga gctggtttta tccttgag 360

cttggtatgt gatctccttg atgagactct acaggtttca agtgatgaag ctattgagac 420

tgccaaggct ttgctctga 440

<210> 43585

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D6

<400> 43585

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agcgggtattg cgagctcaca ccacctgcgg cgcggcgatc ccggggccacc ggctatcggg 120  
ctatgtgatg atccggggccg tgatctcgac agctattcgc ggctgaacgg gcggcgggcga 180  
tgaacggagc gagcgccggg gccggcgggg aggcgcgcgt ggtgtacaag gcctggaagg 240  
ggaacaatgt gtttctactg aaggggaggt tcatatttgg ccttgatgca aggtccctgt 300  
ttatcaccat gttccttatt gtcgcgcgg tatcaatctt ctgcgcgttc gtcgcataag 360  
aattgatgga taagttctct tatggctctg gattgccggg tatgattgca gcagttctat 420  
tcacagcata tgatctgagt c 441

<210> 43586  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D7

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ggggcaaggg aagacaccca actggtacat cttcaacaa tttgaaaatc cagctaaccc 120  
aaagattcac tatgagacta ctgggcctga aatctggaaa gctacagcag gaaaaattgc 180  
tggccttgta tctggtatcg ggacaggagg taccatcacc ggtactgggc gataacctag 240  
agagcaaaat cctaattgtca agctctatgg tgtggagcca gtggagagtg ctgttttgaa 300  
tggtggaaaa cctggaccac acaagattca aggaattgga actggtttta tcctggagt 360  
cttggatggt gatctccttg atgagactct acaggtttca agtgatg 407

<210> 43587  
<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E1

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gacctgtgaa attctcccgt actactttcc tagccaaaca ctctcgctcc ataagacgac 120  
ggatacaatg ataaacacta tccatgacct tcggacctat catcacgtca tcgctggcca 180



gttgccctccc aacactgacc tgcaccgatt cc 212

<210> 43588  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C2

<400> 43588

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caagggctgt ggaagacttt gaacccttaa ctgttatcag aactacctgt ccatgtggca 180  
attgggttaa tgaaatgaca agttttcttt gtcaagcaaa gctgtatggg ttgggttcctg 240  
ctatcccttg cacagatcga ttctcatagt gttatgtcat tgttgattaa gagccatgaa 300  
ctgaagtgtg ctacgccttt ggccatactg tgagtcttga ccatgaaccg gtgtcagcag 360  
gaagcatgct agtgctgaat tgcattatgc gaatgggtgc ccaaaacaac cctaaagatt 420  
tgtttaattt catcgatct tgatac 446

<210> 43589  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A3

<400> 43589

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ttcgtaggcg ctcgatgatg taccctaacc agggatcatc gatgagtcta tgggtgccga 120  
atcataatct tcgatatggg acgttaattg atcgcacgat gtggatgaaa cgtgttggat 180  
taatctcaaa gtgatgtca cacatgaacc agaggaatgg atgatctgat cacgtgccag 240  
catggaacat gtcacaatg ccgtcattat ctaaccacac taacatagtg ttatctcggg 300  
caagccccag tg 312

<210> 43590  
<211> 445

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A4

<400> 43590

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 gcgggctcct aaagaaggcc tcggagctcc atctcctctg tggtgcccaa gtcgccatca 180  
 tcgtcttcaa gagaaggac ccgaaagaa aggaggtgcc cgttccgccc cgcggccaac 240  
 gcgacgacgg cggccttgcc ttcgcgatgg gcaccctctc cgtcgaccac gtgctccacc 300  
 gctgtggcct gtcacacgcc gacgagggcc tcaccgcat ccaggatgtg ggcgccatcg 360  
 tcgcatagcg tgccgctatg gacgcgagag cggggcagac cgagcagacc atggcgctcg 420  
 tggaggcgga gaatgcgctg aatga 445

<210> 43591  
 <211> 146  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A5

<400> 43591

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 atcaaaatct tactcatgga tcatta 146

<210> 43592  
 <211> 174  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A9

<400> 43592

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 tagtgagggg actgatcgac gacaatgata gtcttcaa atgacccatgtc aatcgcaggg 120  
 actcatctcc tatatcaagg actgaattct tcatatgctg tctagtatcc aagt 174



<223> Clone ID: LIB3076-018-Q1-K1-B12

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gagccaccac ccttacatgg acattctaata cgctatgtcg atgatgccgt cgatagatgc 120  
ctgcgctgca ttctgactac cctgcacaac agtcaacgta gaattacact tgcttctcat 180  
gctcatcaaa gagctccatg aactgaatga cgcccttgtc tgaaaagcct ttgtgcttaa 240  
gggctacaac gaacagacag atgcacctat tatcaacgat caccgattct caccgaaaatc 300  
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<210> 43596

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-018-Q1-K1-B2

<400> 43596

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accgctgctt cgtcggcggc ctcgcctggg ccacggacga ccatccctc cacaacgcct 180  
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240  
cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300  
gcatgaacgg caaggagctg gacggccgca acatcaccgt caacgaggcc cagtcccgcg 360  
gcggccgtgg aagcagccgc ggcagcgggt acggtggtgg ccgtggaggc tgcggctacg 420  
gcngtggcgg gcgccgtgat ggcggc 446

<210> 43597

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B3

<400> 43597

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atacaaatga gtcccactcg gttcaaatta ttttgctca gaaacaactt ggacgtagat 180  
cagacatgta tgttttctgt tgttcataca cgcacaatgt tgcgccaaga gggaagttca 240  
ttgcatttgt gtctgcagaa gcagagactg ataaccgcga atctgagcta aagcctggaa 300  
ttgatctact tggttctgtg gatgagatat tatatgatat ttatgacaga tatgaaccag 360  
tgaatgaacc atctcttgat aattgctttg tcacaacgag ctatgacgcc accacacatt 420  
ttgagacaac t 431

<210> 43598  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B5

<400> 43598

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tcgtgctctt caaggcccg tccggaggcg aggcctcggg cgccgcggcg gcgatggctt 180  
cctcgctgca ggcgctggcc acgctcgtcc cgggcctggc ctacatccac gcggtaccgg 240  
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gctacgccac caaggaggac ctggcgcttct acgcggcgca cccggcgcac gtggccgacg 360  
tgcaagggca cgtgcttccc aacgcgctcg acatcaccgc cgtcgactgg gtcaacgccg 420  
tgcc 424

<210> 43599  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B6

<400> 43599

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 ggcgctccgg ggccggcctc ggcaattgag cccacgttct cctccggcct tcgccgtccc 300  
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 cgctgctgga atcgctggat gaaaaggatt gcctttacaa ttocatgtgc gcgctgctgt 420  
 tgtggtgtgg tccgaccaca aaacatgt 448

<210> 43600  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B7

<400> 43600

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 aatccctaata acaaatgagt cctactcact tcaaattatt ttgcctcaga aacaacttgc 180  
 acgtacatca cacatgtatt gcacctgtag ttcatacacg cacaatgttg cgccaagaag 240  
 gaagttcatt gcatttgtgt ctgcagaagc agagactgat aaccgcgaat ctgagctaaa 300  
 gcctggaatt gatctacttg gttctgtgca tgagatatta tatgatattt atgacacata 360  
 tgaaccattg aatgaaccat ctcttgataa attgcttgtc acaactagct attacgccac 420  
 cacacatttt gagacaactg gaaca 445

<210> 43601  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B9

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actgttctact gaccgctcac gcaaccactc cagacgtgcg ccctgttcac attcatacat 180  
cattcctagc cgcaccactg ctccaaacac atattgtacg gtcacgctg cattcactga 240  
tcatgcactt gtcatactaa tttccaagat ctaccaccat gattcatctc ctgacctcac 300  
tctcatgaaa taagaatagg ccatactaca aataataata aacctattaa agcatcttcc 360  
ttacggctca atccagggtg tcatatccta cttatcatga a 401

<210> 43602  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C1

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cctgcgcctg ctgacgctca gtgtgcccga gtcgttggtg gatttcagcg acaagccctt 180  
gatcatgcac tagtacccaa tgattcagac tcatctaata cttctgcttc cttacatgaa 240  
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gatacgccca gtacccttag tcattcgtgg gcattggtaa tatcaccaca cgctcccgga 360  
gtcctgctgt gatcccgccc gctggcccga cttcttccct ggggtgcagg gattcatgaa 420  
tat 423

<210> 43603  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C10

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tatagtgaag tatctggcag cgggtgtaga attcaacacg aaagattctg aaagcagtac 180  
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gaacgctgac cttaatgcca acgacaaata caggaaaa

278

<210> 43604  
<211> 246  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C11

<400> 43604

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attatccgac acatgtatac atatttgaca catactcacc gactcaaata ccttgacaca 180  
tctcatgatt actattcaca tctctataac actacaggat cataagataa tccctttttc 240  
attttt 246

<210> 43605  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C12

<400> 43605

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tcgtggatgc tccaaaattg gatgcgcaat ctctttctgt atcgctcttg agagccgcac 180  
cgctctcgaa tcaagaaagg cttgtgctaa tgaagctagc ccttcaaata aagaacagac 240  
ctgactttcc ataggaggga acaatgccat caccggagtt gcaaaaacca taaaaacgca 300  
cttcaagaat caccctcttg ctatcgtgaa catcaagaac agagcggacg ggactccgat 360  
tcagcaactg atatctgaac tcgaggaggc gacaggatcg gtgctagtgt ca 412

<210> 43606  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A2



<400> 43606

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atcaaaat tctgttatggc acgttaattg atcgacgat gtggaggaaa agtggttgat 180

taatctcaaa gtgatgctga caaataaacc agaggaatgg atgatctgat caagtgccag 240

gatggaagat gtcaccaag tggatcatcat ctaaccacac taacctagtg ttatctcggg 300

caagccccag tgcatttgcc acctccttgc tgttttaaaa acttttatca cttatatgct 360

gcattagggtg atacgagttg tgtgaattaa cagttgatgc attaccattc tttggaattt 420

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<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-E12

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aatgactgtt acatgtcact ttaaacaagt atagacatcc tcatatatat taacaagaca 120

tatattatca ctaataaaaa atcacctatc ttctatcata taatacaacc ttataaggat 180

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<210> 43608

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-E3

<400> 43608

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gaccgccgaa atggccccga agcgaggtgg cagggcaccg gtgccggcca agaagatgac 120

ggataaagtg acgaaccctt tgttcgagaa aaggccgaag cagttcggca tcggcggcgc 180

gttgctccc aagaaggacc tgcaccgatt cgtc 214

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<223> Clone ID: LIB3076-017-Q1-K1-E9

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 cgaattgcag cagctaattt gggacagctc acgccgaaat taaaaccttg tccaagcaat 180  
 aatcagtgtc tctagacgta gaagcgatat aatcattgtg ttcgttcacg gatctgtcat 240  
 gaaaacgacg cacgtacgta ctctacgac gtgcttcaaa gattcctggg tttaatacca 300  
 cagctgtagc cgagaaccga aagcgatggc cgcacgtacg tttccagagg gtatgttggt 360  
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 agcaatgggc agcggacaag aaggagaagg cgctcgcgga caggaagaag gcgctcgaga 180  
 gccgcaagat catcttcgcc cgcgccaagc agtacgccga ggagtaccac gcccaggaga 240  
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 aggccaagct tctggttgtg gttcgcaccc gtggtatcaa tgccatgcac cccaagaccc 360  
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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-017-Q1-K1-F11

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tcgtcgccgc cgtgtgcgcg ctggcgccgc cggctgccgc ggtcgtcact gacggctctc 180

tcccgaacgg caacttcgag gatggccgcg ccaagtcggc gctgggtgaac ggcacgggtg 240

tgctgggggc ccacgccatc ccgcgggtgg agacgtccgg ctctgtggag tacatcgagt 300

cggggcacia gcagggggac atgtgtctgg tgggtgccga nggcgcgcac gcgggtgcggc 360

tgggcaacga agcgtcgatc ccgcaagcgc tggccgtggc gcgcggcgcc tacta 415

<210> 43612

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-F12

<400> 43612

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gtcttgatcc tgccaaatca ctgacacaac attatgggtgc tgtccaaggg atatctgcac 120

tggggcccgag cgcgattaga ctctcctttt tgcccaacct tgtgacatat atgcaacttc 180

tggagccgga actgcagctt gagaagcaga aaaacgagat gaaaaggaag gaagcttggc 240

gtgttttatgg tgccttgctg tgtgctgcag gcaaatgctt gtatgatcgg ttgaaactat 300

ttcttggttt gctttctccg tcgatgcggc ctctttttaca gagcaacaaa agggctctta 360

ccaacaaccc aaataagcga aaatctagca cagatc 396

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-F7

<400> 43613

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<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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tgggggccag cgcgattaga ctctctcttt tgcccaacct tgagacatat atgcaacttc 180  
tgagagcctga actgcagctt gagaagcaga aaaacgagat gaaaaggaag gaagcttggc 240  
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ttt 303

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<211> 277  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-017-Q1-K1-G11  
  
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cctatgggca gatcttacga cctgacaact atgagtttgg gcaatctggt gctggtaaca 180  
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tgaggcaaga agctgacaac tgtgactgct tgcaagg 277

<210> 43616  
<211> 417  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-017-Q1-K1-G12

<400> 43616

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ttccccgattc atacagattt ggattcaggc ggagaccacc agaatgatag tgaacagaag 180

gtgggttcattg ggggtaataca ggaggaaaga aaatatcgaa gaaaaaaaga ttgtcatggt 240

aagggtgttcc aggtgccccca acgatgcaag ccctcagaag atccatcctt tcttcataaa 300

ctctcacatg aataccatct ggtaggtcat tttgcaggat gttccattcc agtcgcacct 360

tcttcagcca acctcttgta acactttcat ggccattttc cttcacaaaa tgatgat 417

<210> 43617

<211> 209

<212> DNA

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ggaagagccc tcggagaagg cggctccggc ggagaatgcc cccgcgggga agaagcccaa 180

ggcgggtgaag cggctacctg cgggcaagt 209

<210> 43618

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-G5

<400> 43618

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gtcgtccggg gtgcttgggc ccccgcg 148

<210> 43619

<211> 112

<212> DNA

<213> Zea mays

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<400> 43619

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<210> 43620

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-017-Q1-K1-G9

<400> 43620

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ccgagtcctg ctttgatggc gaccgacgtg actgagactc ccgcgccggtt ggtggatgcg 180

gccccagagg cgcccgcga cgcggcgcg gcgcctgctg ccgacgcgaa gccggccaag 240

gccaaagaagg ccaccgcgcc gaagaagcgc gccagccga cccaccgcc gtacgccgag 300

atggtctcgg aagcgatcac gtcgctcaag gagaggacgg ngtcacgag ctacgcgatt 360

gcccagttcg tggaggacaa g 381

<210> 43621

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-H10

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gcgatctttt gttcgatcta gctccaccga cgtgcgacga agaagataga atgaaactac 120

aacagctgca atacatttga gctgcagagc tagcttagtg cctgtttggg atcctggtct 180

ttcactgcct ggtgtggtag atgaacggtg gtgagcactc ccttaagcct agtggttggg 240

aggaaagggg ggctatacct agagaggga aacccacag ataactaat atcttattta 300

aatgtctttt taagccttgt tc

322

<210> 43622

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-H11

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tatcacgagc tccgtagggg actggggcgc ctatttgccc ttgagggcca gttggaagac 180

ccattgagat caggtctggca gcttgtattc gtcgaccgtg aggaggacgt ccttctcgtg 240

ggcgacgacc cttggcatga attcgtgagc actgtgtcct gcataaagat cctctccccg 300

caggaagtgc agcagatggg gaagcagggc ctggagctcc tgaactcggc ccccgacagg 360

aggctcagta gcagctgtga cgactacgtt agcaagc 397

<210> 43623

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-H12

<400> 43623

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tttcataatg gatccctcga tcacaactgt tcatgccatc actgccaccc aaaagactgt 120

tgatagaccc tcaaccaaag actggacaag tggcacctct gtcagcttta acatcatacc 180

cagcatcacc cttactgcca acgctttcat taaagatctt cctcaaata ga atgccaaact 240

cactggcatg ttcttccgga atcccccccc agatgtatca actgtatacc tcaactgccag 300

aatctagaaa ctgtccttct a 321

<210> 43624

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-H9

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aaagttgatg tgtatagctt tgggcttata ttgtgggaat tggtcaccgg ttcactccct 180  
tatgaagata tgactccgct tcaggcagct ttcgccgttg ttaataagaa cttgaggccg 240  
gtcattccat tgagctgccc agcggcgctg aagcttctga ttgagcagtg ttggtcctgg 300  
caaccagaaa a 311

<210> 43625

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A1

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gatggaagat gtcaccaag tggatcatc ctaaccacac taacctagtg ttatctcggg 300  
caagccccag tgcatttgcc acctccttgc tgttttaaaa acttttatca cttatatgct 360  
gcattaggtg atacgagttg tgtgaattaa cagttgatgc attaccattc tttggaattt 420  
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<210> 43626

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-E11

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gcgctcgtgc aggagccggc catcaccatg aagtaccaca agggcgcgct cctgtcgggc 240  
cccatcgccg tcaacttcat ctggtaaggc gacttcacgg cgccacagcg ggcggtgatc 300  
accgacttcg tctcgtcgtg gtccgcggcc ccgcggggcg cggcgagtc gcagccggag 360  
ccg 363

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<211> 363  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 43627

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gtcctccaac ttctgctcca agcccgctga cgtctccgcg ttccggcgta tctacgccgg 180  
cgcacagaag aacgtcgggc cctccggcgt caccatcgcc atcgtgcgca aggacctcat 240  
cggcgccgct cagcccatca cggccgctat gctcgacttc aagacgcacg ccgacaacgc 300  
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<211> 477  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gccccagaaa atgcgctcgg tggatatctac ggtgttctga accagaagag aggtcatgtc 180

tttgaggaga tgcagaggcc gggcaccocg ctctacaaca tcaaggctta cctccctgtc 240  
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caggctgtct ttgaccattg ggacatgatg ggctctgatc ctttggaggc tggctcccag 360  
gctgctcagc tgggtgctgga tatccgcaag aggaagggtc tcaaggaaca gatgatccca 420  
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<210> 43629  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B11

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gacgccgtca ccggcaggtt cgtctgcgcc acgggcgact 340

<210> 43630  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B12

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ggagctatga ttgggtacac tccaagagga atgcaacttg ctcaagaaac tatagagaag 180  
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gagattcctt ctgacgatcc acgacttctc aatgttacct atgttttgga caacctgaaa 420  
cctcccgaat tttttggacc aaagagaaac a 451

<210> 43631  
<211> 193  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B2

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aagcatgtga ttattgatgg tgagcctaag atagagacca aattttcaag ccggatccac 180  
ttgagaatat gtc 193

<210> 43632  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B3

<400> 43632

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caatacacc aaatacagat ttgttggtgc atttaccaac aaggacatca cagcaciaat 180  
catctctgct agtatagcag gtgatatggt tcttgcttct gcttactcgc atgagttgcc 240  
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gttggtcgc cgtgtgctca agaccgtgg tttagataag gaatatgagg gcaatgttga 360  
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<210> 43633  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B7

<400> 43633

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cgaacatgt ttcttacttg atggcagaaa gtgaacaatt taagcatgca gacatcgaca 360  
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<210> 43634

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B8

<400> 43634

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tccgacctct actacgactt tggctcgtg gtacctgcca tctcgggtga gatcatgcgc 180  
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<210> 43635

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-C1

<400> 43635

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ctatacctct actactacta cttcagctg taacatgcca tctcacatta gatcatacac 180  
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<210> 43636  
<211> 152  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-C10

<400> 43636

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aagccgccgc tggagcgcgt cgcggcgagc gt 152

<210> 43637  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-C11

<400> 43637

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ctgtcgaaac cggcgaagaa aacgagaagg ctgtatttac tgccgattct gccttgtatg 180  
agtacctaga tgggggctgg aaagaaagag gaaaagggtga actgaagctg aacgtccctg 240  
tatectctc cggcggcgag agagcccggc tcgtcatgcy ggcaaagggc aactaccgtc 300  
tggtcctgaa cgcgagcctc tacaacgaca tgtcgtcaa ggacatggac aagaaaggcg 360  
tgacgtttgc ctgtatgaac agcattgggg agt 393

<210> 43638  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-C12

<400> 43638

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agcttcacct gcacttcctg tcgattgcga tgatggtag ccttcactca acttgaaatc 180  
 tgcattcattg tcatcttcag ctggcagcaa ggggctagat gagttacctc ccgcatttaa 240  
 agaagcaaat caaacctggg atggctcaga agctgttgcg gccaaagtcag atgctcctga 300  
 aattgggttgt caagtacctg gttcctctcc attacatgac aaaggtagcg aatccttcgg 360  
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<223> Clone ID: LIB3076-017-Q1-K1-C4

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 ggatctcatc caatcaacca ataaatgcat catatcctct ggtaaccatc ctgaagtacc 180  
 caaatacaaa tcattctagt ctgtaaaatc tgacaacttg taatactatg accactaact 240  
 gccattata atttatcaag cacatcgatt atgtatgcat atataagcat ataccgtatc 300

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<223> Clone ID: LIB3076-017-Q1-K1-D10

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gttgagtacc gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctccac 180

aacgccttca gcacctacgg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg 240

cagaggtccc gcggcttcgg ctctgtcacc ttctccacgg aagaggcgat gcggaacgcc 300

atcgagggca tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag 360

tcccgcggcg gccgtggagg cggcggcggc cgcgggtacg gtggt 405

<210> 43642

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 43642

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acggccagaa cccgcggcg cacggcggcg tgcaccagcc caccttcaag atcttctgca 180

aggccgcaga ggggtactgc ctaccgtcc gcgacggcaa cgtggtgctg gccccgcca 240

acccgcgcga cgagcaccag cactggtaca aggacatgcy cttcaacacc caagtcaaag 300

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acttcttttg gcaatcccaa ccggtgaaac tt 392

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<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-D7

<400> 43643

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caagtcggag gtcaatgacg aggatgacga agagggtagc gaggaggatg aagatgatga 120  
cgagtgatgg agagctcgct cgagacattg gacgggtgctt catccaacaa tggagcgggtt 180  
acacaaggcc ccgtggcgat caaaaaatag gagcctatat ccatgtacta gaattattca 240  
gtttcactcc acatcgtgat gttttatfff tacttttgtc gtgctataac tggatagcgc 300  
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<212> DNA  
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<223> Clone ID: LIB3076-017-Q1-K1-D9

<400> 43644

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ggaaaaacgt ggtgtccccc cggaacaac aacaacaact tgacccggaa aaataccttg 120  
ccaccattcc acaacttatt ccaaaaccgg aagttgtggg ccttgccgaa ccggttagcc 180  
acgccctctt tccagaacct tgcaatgtcg ccattcttgg ggggcttaac 230

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B1

<400> 43645

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gggttccacc tgggagggga cgagagcggc ctctgtaggg gtgtgctcgc cgcgctccgc 180  
gagcgagccg aggccgagga cgccgctcgc ttcgccgtcg cccactacaa caagaaccag 240  
ggcgccgctt tggagtttac taggggtgctc aaatccaagc ggcaggtggg gaccgggacc 300  
ctgcatgacc tgatactgga ggcagctgat gctggaaaaa agagtgtgta cagagcatag 360  
gtttgggtga agccgtggga agatttcaag tctgtcgttg agtttcgcct tgttgagac 420



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444

<210> 43646

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G5

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tttctatcta gctgggtgatt acacaaagca gaaataacctg gcttctatgg aagggtgcagt 180

cctatccggg aagctttgag cccagtcctat agtgcaggat tatagcaggc tcgcactcag 240

gagccagaaa agcctacaat caggagaagt tcccgctcca tcttagttgt agttgccttt 300

agctatcgtc atccccactg ggtgctatct tatctcctat ttcaatggga acccacccaa 360

tggtcatggt ggagacaaca cctgttatgg tcctttgacc atctcgtggg gactgtagtt 420

gatgtcatat tcggatatat atgtaaa 447

<210> 43647

<211> 347

<212> DNA

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<400> 43647

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aacagcaaca agaaagtgat actctttatc agtcagtcaa gctgaatatt ttcaaaattt 120

tcagacaaaa cagtgataag catgctactg ctggacagtc gccctaattg tctgtcctgc 180

ggaattgttt ctgggagtgt gtattgttaa gtcggttttc tccgagttat acgagacata 240

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ttcagagaac ataatttcca tcaatttcag taggttcatt tttaatg 347

<210> 43648

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G7

<400> 43648

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<210> 43649

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G8

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ggaccgagtc gccgcctctg tcgtcgcgct cctcgccctc ttcttcgccc cggggggccac 180

ggcgcaagcc ccggcctcgt cgcccaagcg cactccagcg ccagcgccac ccaggacggc 240

cttctctcccg tcgcgcgcgg ccagggcgcc tatggcctcc ccgccctcgc ctgccgcgat 300

ggcgccggtg cccgcgcctt tcgcggcggt gccggccacg agccccgacg ggcggggagc 360

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cgtc 424

<210> 43650

<211> 445

<212> DNA

<213> Zea mays

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<400> 43650

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agcgcttctt caccttctgg atggaccaat gcccatgccca ctttttatgg acgtagcgat 180

gcctaaggga ccatgggagg agcttgtggg tatggaaatc tgtattcgac agggtagcga 240

actgatacag cggcattaag tactgccata tttaacgatg gagcttcatg tgatgagtgt 300

tacaaaatca tatgcgatta tcaaacagat cccagatggg gcttgaaagg agcatcagta 360  
accataactg ccacaaacta ttgccctccc aattttgcta ttcccaacaa caactgatga 420  
tggtgcaacc cacctgtcaa acatt 445

<210> 43651  
<211> 330  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-015-Q1-K1-H10  
  
<400> 43651

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tgcactgcac actttccgag cctggacttt cactgagcga attgctacct aaatgtcatg 180  
ctcaccgtca tcattcatga tcttgcccca aacccaacta ttgccaaaat cgccttccgt 240  
taacctatca gatacaataa gcatatccag ctattgatag cctgccaggg actctacacc 300  
tgtcacatca tataatgctg caacaaggcc 330

<210> 43652  
<211> 205  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-015-Q1-K1-H11  
  
<400> 43652

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gagtaaagcc gtactctgtg agagcgcaca agctacgtca tcacgaatga cactctcaac 120  
cgtagcgacc ctctctcat aacgtgacag aactactggc aagcacaacg actaccaaaa 180  
tagcgtctta acattcatat tcctt 205

<210> 43653  
<211> 291  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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tttttctggg ccatgtggcg atcaacaggc catttcttac atgatgccca ccaagaaatt 180  
gatanacagc taaggattgt aatgctatta gaattctaaa ccagtaacac agatcaattt 240  
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<210> 43654

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-H2

<400> 43654

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acaatccact tcctattatc ccaatcacac tccaacacca acaccacca ttacttatct 180  
ttctc 185

<210> 43655

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-H4

<400> 43655

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tactacaaa ctttacaaga tccccctaca atggcgagcg atccgtcgac gttctcgcca 180  
atcgggggtgg acgcatggg cggcggctac tttatggccg gcagcagcag ctactgaggg 240  
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<210> 43656

<211> 373

<212> DNA  
 <213> Zea mays  
  
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 ttattttcac aaggcaccaa accagaaaga attccatgag gaaacatgtc ggaagattaa 180  
 agcactacat ctgtatgact gcttgagagc ttacaaagca acttctgcct ggggtgttga 240  
 ggctcgtgtt ccattccttg acaaaagttt catcagtgtg tcaactggaca ttgatcctga 300  
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 cacaaaacat tgcttctacc gagcgaccag cagaaaatgc tgctgctgtt aggactgagc 240  
 aacataaggc gaacttggta cttacgccag gcatgaatgc ttctagaagt tctcatgatg 300  
 cagttgaggt ggctggtgaa agcaagactg gcaatgaaac attgctttct gccgaaggaa 360  
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 atg 423

<210> 43658  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-015-Q1-K1-H9

<400> 43658

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aagggcactg cacactttcg gagcttggac tatgaacgagc gcaacggcta cctcaaggtc 180

atggtcacca tcataattca tgaccctggt caaaacgcga cagttgccaa agtcgccttc 240

cggcacccta tcagatacaa caagcatatc gagctattga tagcctgccg gggaatctac 300

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<223> Clone ID: LIB3076-017-Q1-K1-A10

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gctatcacga gctccgtacg gaactggggc gcctatattgg ccttgatggc cagttggaat 180

accattgag atcacgctgg cagcttgtat tcgtcgaccg tgacgaggac gtccttctcg 240

tgggcaacaa cccttggcag gaattcgca gcacgggtgt ctg 283

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<211> 179

<212> DNA

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<400> 43660

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cgtaacgctt tttgccactg aactatgcct taacataggc tgattactac gcatataatg 120

gacttgcac actaacgcta catatatatg agttcagtca catggagagc ttgtatgac 179

<210> 43661

<211> 186

<212> DNA  
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<223> Clone ID: LIB3076-017-Q1-K1-A2

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 gctagcaacc ccttagttaa cttggagaag gagtacaagg gcatgttctg gcaagaggac 180  
 atcatg 186

<210> 43662  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-A3

<400> 43662

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 gattggcgaa gcatcttgta gaatctgtca ggaaaacttc agcacaactg ttaatgcact 180  
 cactgagcct attgatatat atagtgaatg gattgatgag tgtgagcgtg tcaacactgt 240  
 tgaaggcgac gatgatgcgt gagcttgccc catgcgatga aactgttacc tacaatcgta 300  
 atgtaatgtg ctggtattct cgaatgccat agcccatagt cagccatggc ttggaataac 360  
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 <211> 51  
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<223> Clone ID: LIB3076-017-Q1-K1-A4

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<223> Clone ID: LIB3076-017-Q1-K1-A7

<400> 43664

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 cgtccccgtc tatccctctt gagcttggaa cactctcgca gctagtagta gctatatatt 360  
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<210> 43665  
 <211> 349  
 <212> DNA  
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<223> Clone ID: LIB3076-015-Q1-K1-G2

<400> 43665

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 agaatagttt ctgggagtggt agtattgtta agtccgattt ctccgagtta tactagacat 240  
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 <211> 115  
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<223> Clone ID: LIB3076-017-Q1-K1-A8



<400> 43666

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<210> 43667

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E5

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cagattgcgg gcagccatag acgaagagag aaagaaaggc caacagggca ctgcttgccct 180  
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accccgccgc ctactatatc cacacggtgc agcacctgat agagagggtgc atgacgttcg 300  
ggatgagcat ggaggagtgc atggaggcgc tggctaagca cgcgcgacgta ctgcccgctg 360  
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<210> 43668

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E6

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cgttgcgaaac ctgaatcccc gtgtgacgct gctatacatt caagaccact accgcacatt 180  
tgccggtctc ataaccocat ccgttcctag gtaaccacca cgttttctact tgatcaactt 240  
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<223> Clone ID: LIB3076-015-Q1-K1-E7

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taagtttgta ggacttggtt tatctcctag acctggagat gcaatgcaag caggctatct 360  
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<210> 43670  
<211> 447  
<212> DNA  
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<223> Clone ID: LIB3076-015-Q1-K1-E9

<400> 43670

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acgattccgt caccaagagc acgcttgaca acctgtatgg gtgcggtcac tcactatctg 240  
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acggcgacga ctgcaagggc cgcgctgctg ggctgaagca tgctgacgcc cgtgtcattg 360  
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cctcggagga cactgtctcc gaagctg 447

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F1

<400> 43671

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gatggcagca acagcacctc accctccact catgtggaca agaagacgga cggcggagat 180  
ggccccaaag aagacgtgga tgtgtccact aaaataatga ataaggcaat tagtgaagat 240  
gaagttgttc cagagtgata aggagatcca agatctcgtg tcagcttctg gtgtgacctg 300  
taagtttgta ggacttggtt tatctcctag acctggagat gcaatgcaag caagctatct 360  
tgttgcaccc tttttttgta taactagtaa ctggcacgtg ccctacgctt gtagattttt 420  
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<210> 43672  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F10

<400> 43672

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ttctattata ttctcactcg tcgacatata cctactagtt gcagatgtta ttgctgatca 180  
tccaccaatt gtccgctcca atgctaacat gatccaacat gaacctetat gacttcaaa 239

<210> 43673  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F11

<400> 43673

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 gctgctgaag gaagaggatg ttgcagtaag caatgttaag atagatctta ctctggaaa 180  
 agataacccc cttgaaagca tcaagttctt taaggatttt ggggtgcgacg agaagttccc 240  
 catcacagat gataggggta gccacttgct acctgcatac aacgaggata gaattgtgag 300  
 ggtctatgcc aagaagcctg agttgggtga tgtgggtgtca gaagcctttg agaatctcca 360  
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 atccaactag gcagttggat tttgtctaatt c 451

<210> 43674  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-015-Q1-K1-F2  
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 cgggcggcgc cgggcagaat cctccgccg cgggtgaagt cggagaggag ttgcagctct 180  
 cgaagaacgc gaagaagaga gaggagaaga ggaagaagct ggaagaggag cggaggctca 240  
 aggaggaaga gaagaagaac aaggcggcgg ctgctgctgc tagtggaag cctcagaagg 300  
 catctgctgc tgacgatgat ggcatggatc cactcaata ctacgagaat aggctcaaga 360  
 ctcttgattc actcaaggcc gcaggtgtaa acccctatcc acataagttt cgggttgga 420  
 tctctgtagt ggaatacatt gagaagtaca 450

<210> 43675  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-015-Q1-K1-F3  
 <400> 43675

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acgcttaagt gtatgtccct ttgcttcacc tcttcacttt ttcagcctac ctgtgattct 180  
gaaacaggtt tgccaatcgc taagctctgc ttatgttgat gaccaaggga tgaattgggtt 240  
cttgaggcgc agatgaatat aaacttgatt tccctgaatt attcctacca aagctactga 300  
accacttcag cacgttttctt acttggccct aaatttacgg aattctctat attttcctca 360  
ctttaggaag aagttgtgag gaaaacacaa tcctttgaca agttgaaaca agaagctgag 420  
aatgcttgc aacaaagtga gagatttaac a 451

<210> 43676

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F4

<400> 43676

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gtcctcctta acggcgacca cccgccgcag gtccgggccc tcgggcgcgg cgactgggtc 180  
aagctcatct ggggcgccag ctttgaggat gcagctgatg tcaggaatct ctcccttgct 240  
tacactcttg ctggagtgga ttgcattgat tgtgcagcag atgcatctgt ggtgggagca 300  
gtgaatgaag gtattgaagt agcagcatca attgtaccaa cagttcaaag gccttggctg 360  
atgattagtg ttaatgatga ttgcagagat cttcatttcc gtaaagctga gtttgatcct 420  
gatgattgcc cactgga 437

<210> 43677

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F5

<400> 43677

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tgcaaagggc accttggctc tggtaacaga tgccaaaaag tccacatctg gagctggaga 120  
tgatggcaac aacatcacct taccctccac tcatgtggac aagaagactg actgcggaga 180

tgggtcccaaa gaagacgtgg atgtgtccac taaaataatg aataatgcac ttagtgaaga 240  
 tgaagtttgtt ccagagtgat aaagacatcc aagatctcat gtcaacttat ggtgtgacct 300  
 gtaagtttgtt aggacttggg ttatcttcta gacctggaga tgcaatgcac gcaagctatc 360  
 ttgttgcacc cttattttgt ataactagaa actggcacgt gccctacact tgtacataat 420  
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<210> 43678  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-015-Q1-K1-F6

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 cgggcggcgc cgggcagaat cctccgccgg cgggtgaagt ccgagaggag ttgcagctct 180  
 cgaagaacgc gaagaagaga gaggagaaga ggaagaagct ggaagaggag cggaggctca 240  
 aggaggaaga gaagaagaac aaggctgcgg ctgctgctgc tagtggaaag cctcagaagg 300  
 catctgctgc tgacgatgat ggcatggatc cactcaata ctacgagaat aggtcaaga 360  
 ctctngattc actcaaggcc gcaggtgtaa acccctatcc acataagttt ccgggtggca 420  
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<210> 43679  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F9

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 gcaatgatct tctcaatcgt cgacagatga atacttgtga caaatgagat ggatgatcat 180

gcacagggag accgaatcaa tgacaacatg tgccctgtatg agcctctatg tagtgaaaca 240  
 tgccaaggcg catcgacagt g 261

<210> 43680  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G1

<400> 43680

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 tgcacgatta tatcattctc tcaactcatta tccacaaaat cctacaatca tgagatattc 180  
 ccatcccatc ttattttgtaa ttacctttat ctatcttcat cccactcga tgctatctta 240  
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<210> 43681  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G10

<400> 43681

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 agctcttctg gcaatgcatg ctctcaaaac ctggggagga accaaccgag ccctatacct 180  
 acctgcagct agatcctacg agaaggggtg aagtgaatct ggagcaaaca ggaagtgaac 240  
 cttgaacgag catgcctagt ttaccatcta gtgccgatgt gtcttcacct ttcgagcaga 300  
 ctttttctc ctagggatca catcatgtga gcacaaagct gcatatgttt ggatgtttat 360  
 ataatctacc taataaacca tgatccgtag agctgcctgt ccaggctgcc aactccttga 420  
 aagttgctga tgctggtgta agaatt 446

<210> 43682  
 <211> 451  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G11

<400> 43682

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ggcggccatg gacgccagcg cagcaggagc cggcgggaag gcgaagaagg gcgcggcccg 120

gcgcaaggcc ggcggggcca ggaagaagtc ggtgacgagg tccgtcaagg ccgggctgca 180

gttccccgtc ggccgcatcg ggcgggtatct gaagaagggc cggtagcgcg agcgcgtcgg 240

cacggggcgc cccgtctacc tggccgccgt cctcgagtac ctggccgccg aggtgctgga 300

gctggccggc aacgctgcca aggacaacaa gaagaccgcg atcatccgcg gccacgtgct 360

cctggccatc cgcaacgacg aggagctcgg caagctgctg tccggcgtca ccatcgccca 420

cggcggcgtc ctcccccaaca tcaaccgggt g 451

<210> 43683

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E3

<400> 43683

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gctgcgaatg gcaccttggc tctggtcaca gactcctcat aagacacatc tggagactga 120

gatgatggct acaacaacag ctaaagactg gactcaagtg gactagaata cctgctgctg 180

ataacgtccc aaagaaaacc tggatgagcc cactataatc atgactactg ctaacactgc 240

agactaatat atccacacag tgctaaagct aatcaagatg tgcatgacgc tcgtgatgag 300

cactgaagag tgcattg 316

<210> 43684

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C9

<400> 43684



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catccatatt atgactacac attctatcat ctacactgac tagtggtcca atctcactat 180  
gctaatacacc agatctaatac tgacaacttt tagcaaacact cttaaatacc atatttcaag 240  
tgtataacat ctctgcatca actaagctaa aataagttct atcgacacca atcactgaca 300  
cttctgggtt cctatacaaa aacagattat agacaaactg ccctctaaat ggctcactat 360  
tctatggcaa tcacaactta acgtctcaat gccaaacttat c 401

<210> 43685  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D1

<400> 43685

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cttcaagctg gccctccctt ggatgaaatg tctattccat acatttcgag ggacttggtta 180  
cacgcaattg agtatctaca ttctgaggga ctagttcgga atcgagggcc gcaagttaaa 240  
gcatcaggtc aatgggtccc ccaacaatta aaccagatgg cggattggag cttgatgttg 300  
ggatgatgca tgcacctttc aagtttcaga atgttgctc caaatgcagc ttgtgggttg 360  
tgaacctatt ctacttgctt ctggatttaa gttatagttt attaaacata tttgatgttt 420  
aatacttggt tcggatgatt tatgcttcaa tt 452

<210> 43686  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D10

<400> 43686

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cttgctgata cgggcatcaa atatgaatac atagacgagg acttaacgta ctatagatct 180  
ctactcctac aaatgtaccc gggtcacaag aagattcctt ctctcattca cactgacaaa 240  
cccatttgag aatccctcat cactgttcac tacatagacg aggttagtga tgacagaaat 300  
cccttgttgc cctctgacct ttaccacata gctcagccta gattcttggc tgattatcct 360  
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<210> 43687

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D11

<400> 43687

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cttgctgaaa cagatatcaa atatgaatac taagacaagg acttaacgta ctatagacct 180  
ctattttctcc aaatgaacct gggtcacaat aaaactccta ttctcattca cactggcgaa 240  
cccatttggt aatccctcat cactgttcac ttcatcacg aagttaggaa tgacagaaat 300  
ccattgttgc cttatgacct ttaccacata gctcaggcct gattctagac tgattatgca 360  
gatccgaaga tatactatct tggaatgaag atctgggtcat taataggaaa agaacaatgaa 420  
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<210> 43688

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D12

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atcgacacgt ccgcgccgtt cgagtccttg cgggaggccg tcgaccggtt cgggtggcagc 180  
gccgtctgga gctccgacct cgtcaggcgc atgttcgcgc cctccaagaa acatgaacac 240

tctgaccaag ctgcagaggg catcaacgcc gaggagcagg ctgcacagct agagaacgag 300  
ctggcagata aagaaagggg gactcttgat gtgctcaagg agctggaggc aaccaagaag 360  
atcatagcag acctgaaact gaagatacgg aaagaagcca ctgaaacatc ccctgaagag 420  
gctgcaaagt ctgatgaaac tgacc 445

<210> 43689

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D2

<400> 43689

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tgctgtgccc actgtatgaa agggcatcat gcgcaggaag aagaacgcag tccacaagac 180  
cgcaaccacc gatgacaagc ggattcagag cacgttgaaa agaattggag tgaacactat 240  
tcctgggtatt gaggagggtca acatcttctta ggatgacatt gttatccaat tacacaaccc 300  
taaagtgcaa gcatccattc ctgctaatac atgggtagtc agtggagtac cccagacaaa 360  
aagtctacaa gaccttctgc caacaattat caaccaactg ggccctgata acctggagaa 420  
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<210> 43690

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D3

<400> 43690

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cctggatccg cgtgtcacgg cgcgggagat tgatgacgag ttccgcacgt ttggggttct 180  
gaagagtgtg tgggttgcta ggaaaccacc agggtttgcc ttcattgact tctatgaccg 240  
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gtcaacca

308

<210> 43691  
<211> 434  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-015-Q1-K1-D5  
<400> 43691

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tgacattgta gatgataaac aagaatgctc ctctgtgtca gaagtagcca gcaggagttt 180  
tgagacaaaag catgtcacta ctgctcagga atgcactgaa gattgtgatt cagcagaagt 240  
tacagaacaa tgtcccaggg gtcgagaaag taagagcata ggctcaacaa ttacagatgt 300  
tactactcat gacacacata agttgtgtct gaatactatg aatgaattgg ccctttgtag 360  
gaagcaactt tcaagagatg gataggaagc aaggcaaatt ttttggattg gttgaaggaa 420  
ttaatggcca gtta 434

<210> 43692  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-015-Q1-K1-D7  
<400> 43692

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cctggatccg cgtgtcacgg cgcgggagat tgaggacgag ttccgcacgt ttggggttct 180  
gaagagtgta tgggttgcta ggaaaccacc agggtttgcc ttcattgact tcgatgaccg 240  
cagggatgca caagatgcca ttccgcattt ggatggtaag aatggttga gggttgagct 300  
gtcaaccaa gatggtggtg gccgtggccg agaccgtaat ggttctgata tgaagtgcta 360  
tgagtgtggt gaagttggcc actttgcacg tgaatgtcgc ttacggattg gttcgggagg 420  
gctgggtagt ggaaggcg 438

<210> 43693  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E1

<400> 43693

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gactatgaca acatgatggt taaccacttt gtacatgagt tcaagagaaa gaacaagaag  180
gatatcaatg tcaacccgat ggctctttca cagctgagga cctcttgtga gagggccaag  240
aaaactatgt cttacactga ccagaccacc attgagattg actcgatgta cgagggcatt  300
gacttctact ccaccattac ccgagccagg tttgaagagc tcaacatgga cctgttcatg  360
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<210> 43694  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E10

<400> 43694

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gcggcagagt tcgtgaagct caccttacgt gccctgtata tgcgccgggc tgggtccaggc  180
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gtcacgggtc tggtcggtaa cgcagacgcc ttgttcacca tgggtgttca aaccgacagg  360
ctaaagggct ccacgctcgt catcaacgga atggtcacgg atgggtcaga cgaatgggag  420
atctacggcg gaacc                435
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<210> 43695  
 <211> 449  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E11

<400> 43695

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gccccatgga ttaagatccc ctaccactg caatgggggtg cgccgacctt caacgccggc 180  
cagtcatttg ggattgtgtc tgctgttttg gtctcgctgg tagagtccac agcctcctac 240  
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attgggtggc agggaatcgg catcctcctt gacgggctct ttggaacggg gactggctcc 360  
actgtctcag tggagaacgt cgggttgctt gggctgacaa ggatcgggag ccgacgggtc 420  
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<210> 43696

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-015-Q1-K1-E12

<400> 43696

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tcgtaagtca cagttctcag ttttggaacc accgatggtt attgtcatag ttttgttttg 240  
ccatatatag attgctttga atgcttaaca agttgatgtg ctctcatgcg gctggaagtt 300  
aaacttggtc taggggcaca tcttatgaag actccatccg cagcgttcat ctgtcgacgt 360  
agttgaggta ctaccacttt ttcatggtcc attaatgtat caaggttcat ctagcaacag 420  
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<210> 43697

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E2

<400> 43697

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gttctggcgg gcagcgtac caccgtctgt ccgaagatt gcagcacaca tgtgtgcaag 360  
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<210> 43698

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C8

<400> 43698

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ctagccactc ggtcgtgtag tcatcagcct tctgatcgtc acccatggcc actgccgagg 180  
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ccgccgtcgt gcccgaggag gctgcccccg ccgccgaggc caaggtggag gagccagctg 300  
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<210> 43699

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B10

<400> 43699

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attataaact acatatcaaa atcacaaact ctcttggatc aatacaactc aaccagatt 180  
acatgattca cctacaatca tcataactat atctataatc tatcttacat caatctgcca 240  
atatcacttg ccaatacatc tacactagct aatccaacca gtcaaccaac tacttcaatt 300  
cattataaca tactgacatt tacactcaag caatcagaat actagccacg actatatcta 360  
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<210> 43700

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B11

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catactccta aatcacttaa gcctaatttg gagacttata tcaacttggc catacacaac 180  
aactcgatct atataacacg ttatataact taccatcaata ataaagtctt aatggattgc 240  
ataatctatc aaccgacacc tgacatcaaa ccagattttg acctatatca tgtaatctat 300  
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<210> 43701

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B2

<400> 43701

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cgccagccgg agccatggcg accgtcgggtg cacaccatcg gacctctcgt gcacgccgag 180  
aacagtggct gcagcaaaga ctactcgctt tgcccagagc tggagtgtca ggaccggcag 240



tccgcctaaat cggtcatact caatgccttc ggctacagct gca 283

<210> 43702  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B6

<400> 43702

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gccgaacccc ggccaaccgt cggcgccgcac catcgccccg ttctgtccccg ccaaggacgg 180  
tggcgctcagc aaggacaacc cgccttgccc gtccttggag tgctgtacc ggctgccggc 240  
caagtcggcc atcttcgctt ccttcggctc cggctgcacg ctgcccgcg aggagatgcg 300  
ggagcttgca ctaggcctgg ag 322

<210> 43703  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B7

<400> 43703

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cttgtaggat attccggaaa tgttttagca tgccttttga ttttaagcatg tacctgttaa 180  
aagtcttctg tgttttccag gttaatggag ttggaaagac cgcagttaca gtggagtacc 240  
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gttccaattg caagtttgat catcccaggg aggggtgggtt tgtacctgtc acattgaaca 360  
gcggtggatt cccctgcgt ctgggtgaaa aggaatgttc ctattacatg aaaactggac 420  
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<211> 456

<212> DNA  
 <213> Zea mays  
  
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 <223> Clone ID: LIB3076-015-Q1-K1-B9  
  
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 tcggatttcg atttatccct ccgatgtgct gtgagcccta ctcttatcag atcttctaac 180  
 tccagtgggg ataaccataa gggcaaccca gcttactgca tgcagcctgt gtgcattgag 240  
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<210> 43706  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-015-Q1-K1-C1

<400> 43706

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ctgtcctcac tcgtagacta tcctcgagaa gctctacaat gcctccacct tccaccctct 180  
cgttgctatc aacatagttt ctttttgatg caaatgatgc cgtaaaccac gacgactccg 240  
ttgactcctt agaccactac gactccgctc tgtgccagca ctatgtggcg catcgtgttc 300  
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<210> 43707

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C10

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ggggaaagca cgctagctga gctgagctgc tgagagagag agagaggcaa accctatcac 180  
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tatctccgtc gcagtacca ccaccaccac caccatgatc ttccccctg ccttccctgca 360  
ggattcctcg agctggaacg ataaccagca gcagcagcac caccagcagc agcaaggcca 420  
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<210> 43708

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C11

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tccctccgca aggggggaaag cactctatct gatctgaact actgacagag atagagagcc 180  
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 atcgcatcgc acaccgatca gtctgtccat gactactaca gctaattctag cacatcacia 300  
 tagcatatca tctatctccg tcgcagtacc caccaccacc accaccatga tcttcccccc 360  
 tgcccttcctg catgattcct cgaactggaa cgataaccat caacatcagc accaccaaca 420  
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<210> 43709

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C12

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 caattaaaaa taatgacacc aacgataggg gcacattaca tcttaaggta aagtaccacc 240  
 cctttacaaa ggaagagcaa ctggaagccc tatacatgga aaaacaagcc atataggaga 300  
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<210> 43710

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C2

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gaatacgtcg attcctcgac cggcgctgct aggaggggag tttctattca gtttgatatcg 360  
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caaatgaata atgtgtaatg actcgtcttt tt 452

<210> 43711  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-015-Q1-K1-C4  
<400> 43711

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cgtacctaac aacctccact caactcctca tcctcctcat ctacacccat tgccactgcc 180  
catttccaca cccaacccc atctcaacca ccaaaacact cacctcgaat accctatctc 240  
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ccggtggatc gaagagtgga acgccggccg ggagaacctc gagttcaact ttcgctggac 180  
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gaatgctgaa ttattgtgcc tgatccaaat gaataagggtg taatgac

467

<210> 43713

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<212> DNA

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ttacacgcaa ttgagtatct acattctgaa ggactagtgc gcaatcgatg gccgcaagtt 240

aaagcatcat gtcaatggtc ccgccaacaa ttaaaccaga tggccgattg gagcttgatg 300

atgggatgat gcatgcacct ttcaagtttc aaaatgttga cctcaaatgc aacttgttgt 360

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ttaaatac 428

<210> 43714

<211> 362

<212> DNA

<213> Zea mays

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 <223> unsure at all n locations  
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tt

242

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<211> 431  
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 <223> Clone ID: LIB3076-015-Q1-K1-A3  
  
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<223> Clone ID: LIB3076-015-Q1-K1-A5

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cagcgacggg ccacttcaag ctgtgcaaga tggacaacac caagcagttc cacaactccg 240  
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ctttcaaggc ttccaagccc aaccttttca tgtgagaagt atatcgtagc cgtgttctgt 360  
gtcttgagcg ccctaaaaat aatgattctt tctgtgcaag tttttggtgc ccttgtccga 420  
tgagcacttt cgtttgattc caattaatga tttgaa 456

<210> 43725

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A6

<400> 43725

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gaggacgact acgactacct cttcaagggtg gtgctcatcg gcgactccgg cgtcggcaag 180  
tccaacctcc tctcccgctt caccaagaac gagttcagcc tcgagtccaa gtccactatc 240  
ggcgctcaggt ttgccaccgg cagtctccag gtcgacggca aggtcatcaa ggcccagatt 300  
tgggacaccg ccggccagga gaggtaccgt gcaatcacia gtgcctatta ccgaggagcc 360  
gtagggggcac tgctcgtcta cgatgtcacc cgtcgcgcca cgttcgacia cgtggggcgt 420  
tggtcgaggg agctcagaga ccacaccgac cagagca 457

<210> 43726

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A7

<400> 43726

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ggagttacac tttgtcggcc gccatcggag ggctgttccc gttgctgagc ttccaggtgc 120  
acggattccc gcaggcgact gcctatgggc ctgctgcagg gtttccttat ggatacggcc 180  
attctttcca tgggtggcat ggccatggct tcccgcgcca ggcaccacaa ggccagcagg 240  
tcgatgcgta cttgaagggtg ctgctgctgg cagttgggtg gcttgtaatt gccagcctaa 300  
tcgcatttta gattatgtat ggctggcgat gtcgctggtc cttgttgggtg tgtaccgtag 360  
ttctagcatc attgcatctt atatggctcc caaagtttga tgtcaatgtg taaagtattg 420  
tggatgcttc 430

<210> 43727

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A9

<400> 43727

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agaaaactcta gattcacact ccaccattga ctctccataa aacctaccta tatcctccca 180  
atcaagccct tacgccgacg tgcgcctcgc aactacatcc tacaatcgct acacctacat 240  
tccgcgccat catctcccgga atctcctcgt ctatccatca caccttctca catctccaac 300  
cgtgtactga gtcctatcgc cgtaacttca tgtactgaat cgacaccctc tccgaagcat 360  
actctcgaat ccgctagaac ttcgtctact ttcacgtcaa ttacctaacc ctaatccagt 420  
actcgttagc ggactct 437

<210> 43728

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-014-Q1-K1-H2

<400> 43728

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gcgcggggcca tggcgctccg gaggtgtcgc ctggcccgcct ggaagccgct gactgagcgc 180

cnctnnggatg cgttgtcgtg ggggtgcacgg agntgatgga gatgtcgatt aagtgggtgtc 240

ttgggattac ggatctgggg atccagctgc ttgccctcaa gtgcacgaag ctcaccaggc 300

tgtatctctc ctacaccatg atcaciaacg ctagcttgcc ttccatcatg aagctaccca 360

ttcttcacta gttgacactg gtggggtgta ttgccaccga tgatgatgct cttggtagcc 420

ctgagagaga at 432

<210> 43729

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D3

<400> 43729

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ctctatcccc ctcgactagc agtagttgtc accgactcac gcataccgcg gaataaatat 120

tggtattggt agtgtgatat ctatattaag tcaagatg 158

<210> 43730

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D6

<400> 43730

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ctccgggcct gttcaagatg aatgtggaca agctcaagat gatggcggct gatgcgcaca 120

ctggaagaaa gggcagcatg cgcaggaaga tgaatgtagt acacaagacc ggagccaccg 180

acgacgcgcg gcttcagagc acgttgaaac gaattggact gaacactatt cctgggtattg 240

aggaggtcaa cattctcaag gatgacattg ttatccaatt tcagaaccct aaagtgcaag 300

cattcattcc tgctaataca tgggtagtca gtggagtacc ccagacaaaa cgtctacaag 360  
accttgtgcc aacacttata aaccaactgg gccctgataa cctggagaac ctgatgaggc 420  
ttgctgagca tttccagaag catgtacctg atgccgaagc cagctccagt g 471

<210> 43731

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D8

<400> 43731

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cttgggtccgg ttcttttagc tgca 84

<210> 43732

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D9

<400> 43732

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aggggggtctg acttctgggc gtgtgcgcct tttgcttcac aaaggcactc cctgctttcg 120  
cggatattgc aagcgtaatg gtgagcgcac gagggaaaact gtacgtcggc gtattgtgag 180  
ccaagaccca tatgttatca aactctggaa ttgttaaaaa 220

<210> 43733

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-E12

<400> 43733

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gaggccgaga ccccgaggag gacttcctcc tcggcggcgc cggctcctgc tacgacggag 120  
atctcgtcgc cgtcttctgc gacggcgggg cgggtgacgg acgactcggc attgagggta 180

tccatcgaga tgcttgtgga tttgagcaat ctaattcggg gaacaggggc agagatgaac 240  
cctgatcatc tcgtccaacc tccaagctt g 271

<210> 43734  
<211> 282  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-014-Q1-K1-E2

<400> 43734

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tgttttgtat cgtaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa actttctntt ctncaaaacta 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggtaatgat tttaaaataa 240  
atatattaat aacaatagta taaaaaaaaa tatatTTTTT ta 282

<210> 43735  
<211> 455  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-014-Q1-K1-E3

<400> 43735

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attgaggaag gtatctttga agtcaaggcc acagctggcg acacccatct tgggtggtgag 120  
gactttgaca acaggatggt taaccacttt gtccaggagt tcaagcgaga gcgcaagaag 180  
gatatcactg gcaacccgag ggctctccgg cggctgagga cctcttgtga gagggccaag 240  
agaactctgt cttccactgc ccagaccacc attgagattg actcgctgta cgagggcatt 300  
gacttctact ccaccatcac ccgtgccagg tttgaggagc tcaacatgga cctgttcaag 360  
aagtgcattg agcctgttga gaaatgcctg anggatgcca agatggacaa gagcagcgtc 420  
catgatgttg tccttggttg tggctccact aggat 455

<210> 43736

<211> 361  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-014-Q1-K1-F10  
  
 <400> 43736  
  
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 gatcaattgt cgacctcttt tatgtcatcc agatgatgat aaagttcagg actgcatata 180  
 ttaatccaag ctcaaactta ggggtttttg gtcgaggaga tctcatcaca gatcctaagg 240  
 aaatcgcata gcagtacttg agatctgact ttgatgttga tttgggtggct tctttgcctt 300  
 taccacagat cattatttgg tctgtgatac catctatcat atattcttcg tctgagcatg 360  
 g 361

<210> 43737  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-014-Q1-K1-F11  
  
 <400> 43737  
  
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 gttcctgggg tctgatcagc catgttcaag aaacctgttg atgtgaaaac catacagcgc 120  
 ttgtctgggg cagacaaaaa gaagctaaga agaactgcc aagggaagggt tccacaggct 180  
 tctgatgctg accttgatgc catccttctt cccaaggctg agataacagt tgctaagtac 240  
 ccgaaccatg ttcttgtata tggcatagag ggagagttcc caatgatttt caaactgac 300  
 gcaagaggtc atgaactggt tcctacagtt tatgcgcttt ggaagggtcc ccatctgttg 360  
 ccagctttta cgcttaaagg tgggtgagggt tcacgttttcg tgattgggtg cgctgatctg 420  
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<210> 43738  
 <211> 444  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3076-014-Q1-K1-F12

<400> 43738

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gatgctcttc gtcgctcttc ttgtcgtgt ctgcttcggc gccaccgcc ccaggtccag 120  
ccacgcccgc cacaccgacg ccgacgacgc gattcgtctc cccagcagct ttggcgttgg 180  
tggtcgaccg tggaattgct gcgactccgc tatcaaggac gcctccctgc cggcgtggcg 240  
ctgcaacgac gtggtggaca agtgctccgc cgactgccag gactgcgagg cgtcgccggc 300  
cggcgacggc ttcgtctgcg gtgactntat ctttaagcctg accgagcccc cggctctgcac 360  
accgaggccg tgggactgct gcgacagcgt ggccctgcaca agggactaca tccacaactg 420  
catgtgcctg gacaaagtgg agtc 444

<210> 43739

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-F3

<400> 43739

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ttcaccaaac acgcagcaga ctatatctga gatcctggat tttcttatgg atgcaaatat 120  
acgcttaagt gtatgtccct ttgcttcacc tcttcacttt ttcaagctag cccgcattct 180  
gaaacaggtt tgccaatcgc taagctctgc ttatgttgat gaccaaggga tgaattgggt 240  
cttgaggcgc agatgaatat aaacttgatt tccctgaatt attcctacca aagctactga 300  
accacttcag cacgtttctt acttggccct aaatttacgg aattctctat attttcctca 360  
ctttaggaag aggttgtgag gaaaacacaa tcctttgaca agttgaaaca agaagctgag 420  
aagtgcctgc aacaaagtga gagatttaac aatg 454

<210> 43740

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-F6

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gcgcacgtgc ggatcaccgg cgtcggcgag tcaagacagg agctcgcgac gcaccggcgc 180

gcggctgggg cgcgtggtcg ccgcgctcgg gctcgcattc gagttccacg ccgtggtgga 240

ccgcctcgag gacgtccgcc tgtggatgct ccacgtgaag cgcggcgagt gcgtcgccgt 300

gaactgcgtc ctgcgggcgc accggctgct ccgcgacgag accggcgccg tggtagccga 360

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cgcctcaac 430

<210> 43741

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-014-Q1-K1-F7

<400> 43741

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ttgcttgaac agtgggaagag agcgagccga ggatggcgta gcgggactcg ttgttgngg 180

tcctgtgtgt gctggttgag gtggacgtgc tggcgctggc gcgcgcggac ctgacgcacg 240

acaactgcgt gaagaacaag aaggtgactg agcataacct gtgcagcgac gacgtgacgc 300

tgatgtgga gccgctggcc aacagtgcgc cgatgttcgt gggcacctac acgttgtacc 360

cgtgcagtca cgccgagtta cccgtgtgt ggtggacgga gagcctgcgc gcgcc 415

<210> 43742

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-F8

<400> 43742

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gttcctcttg cacacatctt tgatcgtgtt gtggaggaat tgtttatttt ccatggtgcc 120  
tctattggat tctggcaagg ggatgttaag ctactagttg catcgaatcg acgtgctgaa 180  
accaacaatt atgtgtgctg tttctagtgt tcttgatcgg atattttctg gactacaagc 240  
taaaatttcc tctggtgggt ttttaaagag tacaatgttt aatcttgctt acaaattcaa 300  
gcagtttaga atgatgagag gagctaagca caatgaagct gcttccatat gtgacaaagt 360  
agtttttagt aatgtgaaag agggtttttg tggaaatgtt agagttattt tatctggagc 420  
tgcttcactt gttaccaatg ttgaagaata ctt 453

<210> 43743

<211> 446

<212> DNA

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<400> 43743

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ggcaggcggc cccaggaaga agtcggtgac gcggtccgtc aaaggcggag ctgcgttccc 180  
cgtcggccgg atcgggcgct acctgaagaa gggccggtac gcgcagcgcg tgggcactgg 240  
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agggaaacgg gcgaaagaca acaagaagac gcgcattcatt ccgcgccacg tgctcctggc 360  
gatccgcaac gactaggagc tcgggaagct gctggcaagc gtcaccatcg cgcacggcgg 420  
cgtccttccc aacatccact ccgtgc 446

<210> 43744

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-H1

<400> 43744

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caaagatcct cggttggact acgcttggtt acagaggaat ttttgcagct gacactatac 120  
 cacccttagt tgagtctgac aaagaagcag atgaacgcca ttatgactgt cgcgataga 180  
 aaatggagtc gcagaagggt cgactgagat cccaaaaggc gaagcaatcc cgctggagta 240  
 caatcttgct ggcttgaacg ccatttcgtt cgagaagggc tgctacatcg ggcaggagct 300  
 tatcgctcgg acgcaccatc gcggtgtcat ccggaagcgc ctaatgccaa tgaagttcgt 360  
 cgacgggaat gggcaagaac tcgagcatgc cgtcgctcca ggctcggatg tcgtggacga 420  
 ggcttcaggc aagaaagtct gggcagttag cac 453

<210> 43745  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-H10

<400> 43745

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 attgcacaag gagagaagta gctcattagt ttcgttggtt tcctggcttc aaggacatca 180  
 tagtagtgca caaggaaccc agacgtagtg gtgacaaggc ctatgtcctg tgctttgttg 240  
 agtttgagaa cgcgaaattc gcacgcactt ccatgcaagc tatacaaggg taccgcttcg 300  
 atgaccggaa gcttgacgac cgggtgtctct agatccat 338

<210> 43746  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-H12

<400> 43746

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 gtgacaacat tctttataag ggagtagggg tcctactgat tgcacaacga gagaagcagc 180  
 tcattaggtc ctgtgtattc ctggctttta ggacatctga gtaatgcaca aggtacccag 240

acgtaagggt gacaatgact atgtactgtg ctatgttgaa attgagaacc cctaaaattc 300  
actcactaca atgcaagctt ta 322

<210> 43747  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-014-Q1-K1-D10  
  
<400> 43747

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aaaaaaaaaa aggaaagggg gaaaacgggg ggacgggagc caagaaccaa 110

<210> 43748  
<211> 453  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3076-014-Q1-K1-A5  
  
<400> 43748

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aacgtgcttg cccggatcag caggtgcttg caggatggcg cagcggngct gtcctgaag 180  
cccgtgaagc cggccgacat gaagaagctc aagtcacacc tgctgaagcg gaagcagccc 240  
aagcagaaga acaagcctca ggcgcaggcg gtggagtctc ctgagcagca gctggacccg 300  
catccgcagc cggatgcacga gccggaggaa gccgcagcag atcgcaacgg cgtcaacaag 360  
aggaaggcag cggccatgga ggaggggctg accgtggtgg tgacggcgcc ggagagcacc 420  
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<210> 43749  
<211> 454  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-014-Q1-K1-A6  
  
<400> 43749

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 ctgatgatgt taagagcatt ctggaatcag ttggtgctga agctgatgca gcaaaactag 180  
 agttcctgct cacagaactc aaagacaagg acataacaga agtgattgca gctggaaggg 240  
 aaaggttatc ctctgtgcct tcagggtgtg gtgcaattga catgggagct ccagcagctg 300  
 tagctggcgg tggcgcagca cctgctgaag aggcaaagaa ggaagaaaag gttgaagaga 360  
 aggaagagtc tgatgaagat atgggtttca gcttgttcga ttaacacacc actgccagtt 420  
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<210> 43750  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-014-Q1-K1-A7

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 gctactcctc cttgccggcg tattactcct ctgcgcgcgc atttcacgca gttctgcata 180  
 ggtcagccaa gattcgagcg ccggcgaggc gttgtcagag tggaaccaga acataagctt 240  
 gaagaagctc aagtttcggc aaggcggatg tggccggagc gcgcgag 287

<210> 43751  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-A9

<400> 43751  
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 ggcagcctt ggttttgcag agctcattca gtggcctctg ctgaaaagtg ttcaatggcg 180

tcaggagcca ccttaagctg ggttaaaacc ccatttgaca cccgaagatt tcatgaccta 240  
tctaatactaa gtttccgctg ccgaaaccct tttggatcaa ttcagccctg gtggctgcaa 300  
actgatcaag actcatccct aatcaagggt cgcgt 335

<210> 43752  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3076-014-Q1-K1-B1  
<400> 43752

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atactgtaga acacagccca ttcaaaactc tgtgagcaca actgacgaca gaaaccttca 180  
tgtggctgat gaaccaacgg cactgaaatc caaggacatg aagatggcta attcaggatt 240  
gacaaaatctg cacagccaag caatgacgta tgcaaggcta tctgaagccc caggacttaa 300  
gatgggttct tctttgagtg ggaactacca agatcaatct aaggagatgg atgggctgct 360  
aactgtactg ccaatatcag ctgaaagtgc tggattactt nncaagccgc cagatggacc 420  
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atggtgccag gcatatttct gggagggaaa cttacacaaa atgggtgcta tagactatat 120  
aacgatccta aaccatcgga tcaataacca aaacgaggtc tgtatggagg atacgccaaa 180  
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<212> DNA  
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<223> Clone ID: LIB3076-014-Q1-K1-B11

<400> 43754

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 cacggcgtgt ctggctacca catcgaccct taccagggcg acaaggcgtc ggccctgctc 180  
 gtggacttct tcgacaagtg ccaggcggac ccgagccact ggagcaagat ctcccagggc 240  
 gggctccagc gtatcgagga gaagtacacc tggaagctct actcggagag gctgatgacc 300  
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<223> Clone ID: LIB3076-014-Q1-K1-B12

<400> 43755

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<210> 43756  
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<223> Clone ID: LIB3076-014-Q1-K1-B3

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<210> 43757  
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<212> DNA  
 <213> Zea mays  
  
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 <213> Zea mays  
  
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 catgcgtggg gggatgctat cctttttttt attttatttt attttattct taacttggat 180  
 cagttggggg tttgaacatt gctagtgtcg tgtgattggg aaggctaata tgatgccttc 240  
 gatgcagagt tttcaatgaa tgccttgggtg caaacgtacg attgtgtaat aatgccttct 300  
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 tgttttagta ggagaagatc taaatggttg tgcttttgtg tategctcgt taggttttgt 180  
 tgacaaagtt tcatgtggag tagttctgta tattcttgag tectatcaag gaagtacaga 240  
 gatcagatca aatttaggaa cagcatttgg ctattcaatt acaagacttg gcttgggctt 300

agttccagct gtctgttcgc tgctttcatc aatagtggct tataccatgg acctccctga 360  
 ccctgatact cggcgggagac ctttgggtgga gccccttcta gtataacttc actggtgacc 420  
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<210> 43760

<211> 461

<212> DNA

<213> Zea mays

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 gggcctcgcc cggagacggg cctcgagaag ctccgcaagg ccaccaccgc cggcccgtc 180  
 gtcgtcgtcg acaaaggtgc gttttgttgc agtcgatgcc gtcgaccccg acgacgccgg 240  
 tgacgccttc gacgacgacg acgccgcgcg ggcgcagcaa cgtgtggcgc agcgtgttcc 300  
 acccggggag caacctggcc accaagggca tgggcgccaa cctcttcgac cggccacagt 360  
 ccaacttccc caccgtctac gactggctct acagcgacga gaccaggagc aaccaccgtt 420  
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<210> 43761

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-C4

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 tggctcggat tcgggggagt ccttgctgcy ctgaaagaac tcaaggagag ggcgctaagg 240  
 aagatgtccg gatcaccggt gttactgtca atggaggact cctctactgc caacttatca 300  
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agccaacctg ttgacaatac gtctgataag cctgacgcac ccagctgccg ccttagatct 420  
gatcatcgga aggagaagtc ccttgggc 448

<210> 43762  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-C5

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cgcccacaag tacgagatgc tgggcatcta cctgcagcgg tcagcggagc gctgtgcgcg 180  
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ttcgcgtacg ccatcaactt tccgatccag aagttcatgc aggcgcagag catcgtgctc 360  
ccgagcgcgt acatctccac cgcgtcgtg gcgctgcacc tgctgctgag ctgggtgggc 420  
gtg 423

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<211> 184  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-C7

<400> 43763

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ccgacacact cagacctgag aataaatatt ggtattgcgt gtgtgatatt tattagaagt 180  
taag 184

<210> 43764  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-A4

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tgggatatgg tgcttggatc tggcagcgga ggacaaggtc gacggcggca gctgaaggac 180  
agtcattcta tacagaagga tgattcaagc aaaggacaag gcggtttgaa tttcagtatc 240  
gtagccgctc tgattgtgct actggttgct ctgatagctg gactgctctt cactggttcc 300  
gccggatacc caatataata cctacgtaac taactgcgct gtaccccacc agtagatgcg 360  
aaaagcaaag atgttagaaa ctgttgaagt ggagagttga atttatttaa tgttagaagc 420  
tgttgttcac atctctatt 439

<210> 43765

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-C9

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gcctctattg gattctggca aggggatggt aagctactag ttgaagatat tgggtgtgctg 180  
aaaccaacaa ttatgtgtgc tggtcctcgt gatcttgatc ggatattttc tggactacaa 240  
gctaaaattt cctctggtgg gtttttaaag agtacaatgt ttaatcttgc ttacaaattc 300  
aagcagttca gaatgatgag aggagctaaa cacacatgaa gctgctttca tatgtgacaa 360  
agcccccttt 370

<210> 43766

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D1

<400> 43766

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 tattggtagt gtgatatcta taagaagtca agatgggtgaa gttcacagct caagagctcc 180  
 gtgctatcat ggacaaaaag aacaacattc gtaacatgtc tgtcattgct catgtggacc 240  
 atggcaagtc tacgcttaca gattcccttg tggcagctgc tgggattatt gcccaggaag 300  
 ttgctgggtga tgttcgcatg actgatactc gtgcagatga agcagagcgt ggcattacaa 360  
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<210> 43767  
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 catctcgtgg cgcaccttgc atcagccgcg gccggcacct ctactctcgc ccgcccccta 180  
 tgtcgtgaagc gcgcaatcag aactcccgat caccgcacg ctggtgcgcc agtgcgtctc 240  
 tcgccaccat gaactccatc gagcccttca acaggctggt gaagctggcg gccgcgcctc 300  
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<210> 43768  
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 <212> DNA  
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 <223> Clone ID: LIB3076-013-Q1-K1-E2  
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cacacatctc gtggtgcacc ttgcatcaga ccgggcccgc acctatactc tcagccgccc 180  
cctatgtcgt aagcgcgcaa tcagaacttc ctatcacccg cacgctggtg cgccagatgt 240  
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<210> 43769  
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<223> unsure at all n locations  
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gggggggggg gggggg 436

<210> 43770  
<211> 79  
<212> DNA  
<213> Zea mays  
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ggaatttaaa aaaaaataa 79

<210> 43771  
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-F7

<400> 43771

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caccaccacg ggcgaacggg aaatcgtacg ggacatcaag gaaaagcttg catacgtggc 180

tcttgactat gatcaggagc tggagaacgc caagagcatc tcatctgtgg agaaaagcta 240

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gcttcttcaa gccttctttc attggtatgg aaac 334

<210> 43772

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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cccggtagct taccgagtag tacggtggnt cgatgtcgcc gctgtgcgcc cgggtgatga 180

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<211> 375

<212> DNA

<213> Zea mays

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gggctcttcc tttcccgcgc catgtgttgg cgatcgtact gataatactg aaggctgtca 180

gaagtttttt ttataacctta catggttagc ctttctgtac aaaggtgaac tctatgtctg 240

gtgtttgttg gcatccatgc cttattttgc gaggtacatc aagttgacaa aatgttcgga 300  
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 cagcatattc accac 375

<210> 43774  
 <211> 331  
 <212> DNA  
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<223> Clone ID: LIB3076-013-Q1-K1-G11

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 aatgttcgga gggatagggg gaaaacgctg caagcgccat atttttttga gtgtgaaaac 300  
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<210> 43775  
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<223> Clone ID: LIB3076-013-Q1-K1-G12

<400> 43775

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aagcacggtg acaagacaat cgttgattcc aagactatct gccggtacct gtgcacgcag 360  
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<223> Clone ID: LIB3076-013-Q1-K1-H2

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gtgggcagca gcgccactcc tactactgct gctgctcgtt ctgcacggga gaggaggcca 240  
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<211> 242  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-H3

<400> 43778

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ggcgggggca gtagctccac tactactact gctgggtgcta gttctgcacg ggagacgag 240  
tc 242

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<211> 310  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gcgcccggccg aagtcaataa caagcggaag ctagaggagg tcacctccga ctcggagggtg 240  
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<210> 43780  
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<223> unsure at all n locations  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-014-Q1-K1-A10  
  
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 gaagagcgtg tgtaaacgga cgataagacc gggactgaaa atgatagagg atgctgcgg 180  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-014-Q1-K1-A11  
  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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tccgcacagc aaagcgaaaag cagcaagaag caaagcaatg gagaaccctg cgagtgtgct 180  
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 gccgggcagc acggagataa cctaggaggg caggcgcgac ctgtacagga tatacgtgag 300  
 taactttccc gtctacgact gccgcgggcc ctactccagc cttgtggacc gcgtgcaggg 360  
 gatcaccagc gaaatcgga acgcgcacca actgttcctc antgtgatcg acaccgacag 420  
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<210> 43784

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-D4

<400> 43784

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 aaatatggaa ccaggtatgg cgctagcttg cgtaagcaaa tcaagaatat ggaggtatct 180  
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<210> 43785

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-A3

<400> 43785

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 actccgcgtc cggattccga atcgaaccac ccagccaac tcctgtcaca ggctcgtctg 180  
 aagaccaca acgtgcctac ccaaccagga tcttccattc cgggcctcta gttaaccaga 240  
 gccagccatc aaaggctgga ggcggaacaa atggtgaacc tcaggtcctt ggtgttgcca 300  
 atcacctgt ggttttgttg acaagatcag gtccccgggc agacggtagt ggccagacaa 360  
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atttcagtaa cagtgggaag tacgac

447

<210> 43786

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-H2

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gcgtccatgg atccggcggc cgagccggcg gcgtggccgc cgtggacgtc gctcctgctg 120

cgggcgctga gccggcggcg gacctgggtg gcgtctttcc tcgccgtcta cgccgggctg 180

ctctcgctct cctggtcctt gtcgggtcc gtcgccgcgc ccgccatgct cgtcacctgg 240

accacc 246

<210> 43787

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-H5

<400> 43787

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gacgacaccg acaaggtcgt ctacagcgtt aaggccgagg tagagaagac ggggagaatg 120

gagccggttt cgccggcgtt atctgacttg gtcggccccg agctgacgaa gatctcgcca 180

gttgcaacca agaggttttc gtaccttgag aatctgggtg gaacaagaag cccgatagct 240

agacactagc tgctgtaagt aggggttttag tgggggtaga tggatcatgc cgtcgcaaag 300

ccttcggaag aaactttgta catagcatag atgccactg cgaacgtttg tctaacgata 360

atgtgacatc taatcgacta atagaggcag aagttcttag agcgc 405

<210> 43788

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-012-Q1-K1-H7

<400> 43788

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cgatcccttc tctaagaagg actggtatga catcaaggcc ccatcggctt tcagtgtgcg 180  
caacattggg aagactctcg tgtccaggac acagggtagc aggattgcct ctgatggtct 240  
gaagcacaga gtctttgagg tttgtctagc tgatcttcag ggtgacgagg atcangctta 300  
caggaaaatt caggctccgg ctgaagatgt gcaaggggaag aatgtgctca caaacttctg 360  
gggcatgaaa tttta 375

<210> 43789

<211> 77

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-012-Q1-K1-H8

<400> 43789

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<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-013-Q1-K1-A1

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agatgtctga tagccatgag actgacagga acattgagat ttggaaaatt aagaaactga 180  
tcaaggcatt ggaatcagcc agaggcaatg gcacaagcat gatctctctg atcatgcctc 240  
cacgtgatca ggttgctcga gtggctaaga tgtaggtga tgaatatggg actgcttoga 300

acatcaagag tagagttaat cgtcaatctg tgttggtgc catcacctca gctcagcaaa 360  
 ggttgaagct ctacaacaaa gtgcctncta acggattggt tctgtacact ggaact 416

<210> 43791  
 <211> 70  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-A12

<400> 43791

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<210> 43792  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-A2

<400> 43792

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 tcaagatgtc tgatagccat gagactgaca ggaacattga gatttggaat attaagaaac 180  
 tgatcaaggc attggaatca gccagaggca atggcacaag catgatctct ctgatcatgc 240  
 ctccacgtga tcaggttgct cgagtggcta agatggttagg tgatgaatat ggtactgctt 300  
 cgaacatcaa gagtagagct aatcgtaaat ctgggggtggc tgccatcacc tcaactcagc 360  
 agaggttgaa gctctacaac a 381

<210> 43793  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-A5

<400> 43793

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ctcctccgcc ggcaggatgg acagcctcag gggagccaag ttgccgggcg tgccgaaagg 120  
 cgggagtgcg ctctgaagg tggcgctgct cggcggcgcg gggctctacg ccgtcctcaa 180  
 cagctttctac aacgtcgagg gcggaacccg cgccatcggt ttcaaccgcc tcgaggggat 240  
 caaggacaag gtgtaccccg aaggaactca cctgatgatc ccgtggatcg aaaggccgat 300  
 catttacgac gttcgtgccc gacccaacct tggtgagagc accttctgaa gccggtacct 360  
 tcaaattggtg agaattgggtc ttcgtgtcct tac 393

<210> 43794  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-B10

<400> 43794

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 acaaagggtta ttttcagggg gcaaagctga tggttataat ttttttccat agttggcaag 180  
 tgtattttca atggatgatg cttgaacca aatggatgac agcagatgtg tgatatgacg 240  
 tgcgctcagc ttctccaaca cactgattct tgaatgcatt aatcatagtg cacaagcagt 300  
 tattcatgat aagaaatctt ttgctcatat tcatataatg tgctctcaaa gacattga 358

<210> 43795  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-B3

<400> 43795

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 ttccactggt tcgaacaagt gccgtcgccg cggaaccac cgtcatcggt ccaccaccgc 180  
 ggcgggcaca acctcgagct gcagctcatg ccgccgtcct gcagcggcgc gggcggtgac 240  
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<210> 43796  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-013-Q1-K1-B8  
  
 <400> 43796

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gaaaaaaaaa aacacaaaaa agaaaaaaaaa aaaagggaaa aacaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa 240
caaaaaaaaaa aaaaaaaaaa gaaataataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aataaaaaaa aaattaaaaa agaaacaata aaaaaaagaa aaacaaaaa aaaaagaaga 360
aaaaaaaaa gtaaaaaaaaa aaaaaagaa                                     389
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-013-Q1-K1-C1  
  
 <400> 43797

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cgcaatgttc agcgggaaaa gaaatccaaa cgacaaccac ttctctcgca agaagtacta 180
agctctgata tgtcgtcttc tttttatgca cgctgtggt accgtagtct gtaatcccag 240
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<210> 43798  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-C10

<400> 43798

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tggattggat tgtagcctgc gccaccatat tttaacttca aatccgttga gatatgcttc 180  
tttttcgggt ctctttgttt ccttctcctt tttgctggag ccactgactt tgatgtctca 240  
ccaccatttc ttcatgtcat tcccttttct ctcaacttga ggcacccctt tgtagacaag 300  
atctgcctac gtgtttcagg ttcttgattc tgtttatatg cagtcggaag ctttatgcgg 360  
ttaggccag ctgatttgtt gttgtgttgt ttcttgtaga gctgatctaa accaggcgca 420  
actgtgaaac aatggcgaca 440

<210> 43799

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-013-Q1-K1-C11

<400> 43799

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accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180  
tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggggcgctac tccaagaagc 240  
ggttccgcaa ggcgcagtgc ccgatcgttg agcgccttac aaactccctc atgatgcacg 300  
ggcgcaacaa cggcaagaag gtcattggctg tccgcatcat caagcatacc ctggagatca 360  
ttcacctgct caccgatgcc aaccccatcc aggtcgtcgt cgacgcgac atcaacagtg 420  
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<210> 43800

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-C5

<400> 43800

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tttatctgga ctggtgggaa gaaattggga acctctcgtc taccaaattc tgctccattc 120

ttaatttgag ggcaaaagac taaccttatg ctctgoggct tctgcacgtg tgtacctcat 180

gtctgatact tctggcctct ctcattgtcc ttaccttgga acaacaactt tctgttcctt 240

ggcttctctg ctcatcttgg taattaaggc atctgtttat agtacagccc aagacattgg 300

gcctgaactt ctcccgctcat taccagatca caaggccaat ctcaagaatc tattgggaat 360

gc 362

<210> 43801

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-D10

<400> 43801

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ggcattatgg caacttctgt gggttattcc atcctcttct actcagaaag tgtcacccaa 180

cccttcaggc cttaaaaagt tgtcagtga gaatgtcaag actagagcta gggttggggtt 240

atctgaactt ctacacagt tgctagactg gaacagccga ctaccattca ctgctgcaag 300

tgatttctat tctcaagaag ctacgagcga aaattttgtg tctcatgcaa tacttggtaa 360

tactcgagca tcagagatca taaaacttgc tccttttttg gctccattta ccattcgagt 420

caaaatattc actttcc 437

<210> 43802

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-H10

<400> 43802

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<210> 43803

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-D2

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 tttctcacat gctctgcaag ccatcccaac aatcatagct gacaatgctg gtttggatag 360  
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 tga 423

<210> 43804

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-D3

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cccgacacgcg tggcctgggt acctctacac ccgagtagtt gggagatgca caccccaatt 240  
 ctggagcagt ggagaccatc cctggcccaa catcgtccca caagaagcgg cggtggcgaa 300  
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<210> 43805

<211> 304

<212> DNA

<213> Zea mays

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 gtgcggacga taagtacata tgccagttct atgagaaatc aaacaatttt aggggaagta 180  
 ggcataaact aatgctggga aacactttca tttccaatat agagtcaacc ccaccggaag 240  
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<210> 43806

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D7

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<210> 43807

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-E1

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 gaagaaaagg tggcagccct gcagtccaag aagaactagc caaaaggcg acgacgacga 360  
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<210> 43808

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-E11

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<210> 43809

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-E2

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<210> 43810  
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 <212> DNA  
 <213> Zea mays  
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<210> 43811  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-012-Q1-K1-E5  
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 gagttcaagg aggagaacct taagaacaag tctgttgctt ccgtgggaaa agctgctggc 360  
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421

<210> 43812  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-012-Q1-K1-E6  
  
 <400> 43812

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 ctatgtcaat atcaggaaag ccatgcttgc ggggtatttc atgcaggteg ctcacctgga 240  
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 ttgtatggac cataaaccag agtgggtgat ctataatgaa tatgtcttga ccaccaggaa 360  
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<210> 43813  
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 <223> Clone ID: LIB3076-012-Q1-K1-F10  
  
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 gctaccattg gtggtgtaac catagatggg cttcttgcag cagcagctgg attcttgatt 180  
 gggcttgcat ttgtgctgat aggatttttc accactcaat gtgacccctga tgtattctgg 240  
 aaccagctgc tagctatacc cttggcacag ctgccggcct atgtagaaag ttgatcgatt 300  
 ccttcttgag cgcaaccagt taatatagtg gggtctacag tggtcgcaaa aagggtgaagc 360  
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 <223> Clone ID: LIB3076-012-Q1-K1-F5  
  
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 <213> Zea mays  
  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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gattgggctt gcatttgtgc tgataatgat tttcaccact caatgtgagc ctgatgtatt 240  
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<223> Clone ID: LIB3076-012-Q1-K1-G10

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 tcagtaccta atcttgctg tcaaccctaa ttgtctataa ttgcaacatt tctacatagc 180  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-G4

<400> 43821

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 attcatccat gtctttcaga actttcagag gttaatgctg agcatagggc taacaccttt 240  
 agagatgatt taattgatag tctgggagaa ttctatcact gtgagaaaat ggcttaaagg 300  
 ccattttttc aatgatattc tgggacttgc taattcttca ggagagaaag tgctagcttt 360  
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<210> 43822  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D3

<400> 43822

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ggttcctgag agggttctgt atgaaattct tattcaggta ggtcgggttg aaaactacac 180

ataccctcgt gacaaggaaa ctagccgacc aaaaggetat gcttttgctg agtatgaaac 240

ataggagatt gcccaatatg cgtgtaagct attttctggg cttggtegac ttcataataa 300

aacgcctaaa tttgcagact ctgggcaaga caaacctta ttaaattggca atattcct 358

<210> 43823

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-G5

<400> 43823

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cgccatcgac acgctgggga gcgtcgctgg ctgggtgctg cgcggtaca cgcaggtgat 120

aaacagcata tggcgctagt acagttcaac tgtgccttgg ttcctcaact cggtgaaaag 180

cctcggctgc tatcgctatc acctgcgatc gctaaggcta cc 222

<210> 43824

<211> 229

<212> DNA

<213> Zea mays

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<400> 43824

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ggccagcgag tgaggcgctg gcgcacgcag cggcggcggc cagggcccag gcccctggg 120

atcggcgtgc gcgcgtggcg gtgtagtctc tcgcgcgctg acatggcatt atgacacggg 180

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-G8

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tgttccgcga gggcgtcaag tacggcgcgg gcatcggccc cgggtgtctac gacatccact 180  
ccccaggat cccgtcggct gaggagatcg ccgaccgcat cgacaagatg ctggcgggtgc 240  
tggacaccaa catcctctgg gtg 263

<210> 43826

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A12

<400> 43826

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ccaccactac gatcgatctc ttcatcgact agagcctcct cctattccta aatactcttg 180  
tgtaccccta caagcacaca atctttctat aacttgacct tctcttctg acctgctcca 240  
tcaacacctc cacaccatca actatcccaa catccactct cctctaccta ctctccaact 300  
ctaaaactcc tatttttcga aatcttctac taccacaat ctgtcaccac aagatctgaa 360  
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<210> 43827

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A7

<400> 43827

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gaagaccctg acggggaaga ccatcaccct cgagggtggag agcatcgaca ccgtcgacaa 180  
 cgtcaaggcc aaaatccagg acaaggaacg gattccccca gatcgacagc tactgatatt 240  
 cgctggcatg cagctggggg atggacgcac gctggtgtgc tacaacatcc aaaaagagggc 300  
 aactcttcat ttggacctaa agcttatggg tggaaccatg attgatgtca aaactctcac 360  
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<210> 43828  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A8

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 tgcctggtgg gaagattgga atggtcaaga agataaggcc aggggtgaag ctgttcctgt 180  
 atgattttga cctgaagctt ttgtatggtg tgtacaaggc agcatcacat ggggggctaa 240  
 acctgtcca aggagcattt agtgggaagt tccctgcaca ggttaagttt aagattgata 300  
 aagattgccg ttctctccct gaaagtagtc ttaagcaagc cattagggaa aattacagtg 360  
 caaagagcaa atttgacca gaactcacca taaaacaggt ccaaaggta cttttgct 418

<210> 43829  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A9

<400> 43829

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 ctacccttac cacctcccat cataacgccg ccaccactac gatcgaccat tcctccgact 180  
 agagccgtca tcgtcttctc aatacgatta tgtaccgat caagcatcga agctttctat 240  
 aactggacct cttgctagct acctttgtct atcatcactt gcactccatt tactatgcca 300

acataactctc ccttctgcaa gtactcgacc tctataactc aaattttttg aaatcggtta 360  
ctagcctcta gcattcacca tatgatctca attctaattc ta 402

<210> 43830  
<211> 334  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-B1

<400> 43830

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catcacctc gaggtggaga gcagcgacac cgtcgacaac gtcaaggcca aaatccagga 180  
caaggaaggg attccccag atcaacagcg actgatattc gctggcaagc agctggagga 240  
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gcttaggggt ggaaccatga tcaagtcaaa actc 334

<210> 43831  
<211> 455  
<212> DNA  
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<223> unsure at all n locations  
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acaattgacg atggacctct gggcgagggtg ttcaagggca agagttgcca gtcagcatcc 180  
gcggacatct taactgacca ttggacttcg actcgtgact tgcgttctcc aaccggaatc 240  
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<210> 43832  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-B2

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ttctacatca aggctatgat cgaagcggag cgagccaagg gaaccgctgc agactcaagt 180  
gcataaccga gatagcacct tccggcccca cccacccctt gacttgggtg tgctgcaaata 240  
aagctcttca ctgcttttgt agtcagagag acatgtcgat tttttacgtc ataattgtta 300  
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atttggcc 368

<210> 43833  
<211> 242  
<212> DNA  
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<223> Clone ID: LIB3076-012-Q1-K1-B5

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cgatctggcc tttttaatcc gcggatcccg tacaagatgc ttcccccttc gtcctcaag 180  
accggccagg ggcacccaat gtcggggag ctgaagaatg gtgagacgta caacgggcat 240  
ct 242

<210> 43834  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-B8

<400> 43834

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gggctcatca ggggtgaaggc gacagtatga tggcttcaat ggagcctttg ctggacgctg 240  
ctcatgtgga tatgggaata gcaggctatg tccatgctta tgaacgtgcg gagcgagtct 300  
acaattccag acctgatcct tgtggcgctg gccacataac ta 342

<210> 43835  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-C11

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gccgtgctgg cgctggcgcg cgcgacctg acgcacgaca actgctgtaa gaacaagaag 180  
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gtctccgtca ccccgacgg ctc 443

<210> 43836  
<211> 251  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-C5

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caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacggggcg agaagggcgt 180  
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gttcatgtgc c

251

<210> 43837

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-C6

<400> 43837

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cagaccttct tcaagcccgga ggccgcggcg ctcccgaggagg ccctggacgc gtcctgcatg 180

cccgccggca ccatggccgg gaagccggag gccacgtcta tcccgaccac caccaccggc 240

acca 244

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<212> DNA

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<400> 43838

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aatggagggtg gtacaccgtg gttgtttaca agagagaaga tgattgagca tttgtgtgta 180

caactgtgca tttataaatt cctcagactt tgtgaagctt taacaaaaag aattcgggtac 240

atgcatatag gtattgggaa ttaccaagca gcataagcca caagcaccca tctagcaacg 300

ttaacgatca agaaaaaac agctggtaga tctatttaca tacaattgcg catgctagaa 360

ctattgattc tctcattatt aatcgggc 388

<210> 43839

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-C9

<400> 43839

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atgatctgggt tcattaagga gcattcatatc atatttgctt attttgatta tataatgcat 180

tcagtgccttg aaaattatat gacataagaa tctaattggtg gttgtgatga cagacatgca 240

tttcatcata attttgcttg tgaaatatca aggtcttaag gttgacctgt tgtattttgt 300

ggtaatgatg tgaatattaa cctacaact attatgttgc ggatcatcatt aaatttctta 360

gctcttatac agtattaacc ttac 384

<210> 43840

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D1

<400> 43840

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gtgcggacga taagtacata tgccagttct ctgagaaatc aaacaatttt tggggaagta 180

ggcatgaact aatgctggga aacactttca ttttcaataa agagtcaacc ccaccgcaag 240

gggaggtgcc ccc 253

<210> 43841

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D12

<400> 43841

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tgatgacaaa tctgatactc ttgcatgcaa acggcctgga ttacagaaag aaggatcaaa 120

ggttgtctat ggtgttccaa aacatggaaa gaagaagttt atggaagtaa gcaaacatta 180

ttacgcaggc cagtttgaca agatttctga gggtaatgca tctaacagat ttgtgaaaca 240

tctggtgacg caattgccaa gggAACgtga aaatgattcc aaagttgatc ctattagagg 300  
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agctagcagt gtcctcggaa atgattcctt ccccatgcat gttcagaata cttgtgtttc 420  
tcaaaggagt tttggttttg cgggaagttc gacaag 456

<210> 43842  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D2

<400> 43842

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atccttgggtg cggacgataa gtacatatgc caggtctctg agaaatcaaa caatttttgg 180  
ggaagtaggc atgaactaat gctgggaaac actttgattt gcaataagga gtcaacccca 240  
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acccaata 309

<210> 43843  
<211> 451  
<212> DNA  
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<223> Clone ID: LIB3076-012-Q1-K1-A11

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tttttgggtg gtccatcgtc ctatatatac gtcacacagt tcaactgacga ctatataacg 180  
attgttgggg ttcagaaact acatatgggtg gtgctcgccc gatctctttc ttgtatattc 240  
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atgtctcgtc ttgtgcctcc tactatacct ttacgtgttg ttcttccttt tgcgtccat 360  
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451

<210> 43844

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C9

<400> 43844

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ccatggacccg caagagcaag tacgccaagg gcgcgcgcgag ctcggcagcc gcgttcatgg 180  
acgcgctcgc cgcagccgcc gcggaccccg acagcaggtc gggccccgcc cgcggcggggt 240  
gtcgatgcgg cagggggaag ctgccctccg aggtgccact cggagcgggtg caaaaccaac 300  
ccggtgaccg ccgggaattc gaacaaccgg acgaacctgg agagcgacgg gcactccaag 360  
gcccccgag atgctgtacg cgtc 385

<210> 43845

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-D4

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gattttctccg attttttgaa gtatttttcc ttggggacgg tttcattgcc attcctcgac 120  
gggggttaggg tttgcgggga tgagggtgca cggcgagggtg tcggacgatg aggcggccgt 180  
ggctgtggtt ggggaaacgg tgccctcctc gccgcctccc gcctacgtgg tgcagccgct 240  
ggtggtgggg tacgccctca ccaagaagaa tgtcaagagc ttctgcagc ccaagctgct 300  
tgcgctggcc aggaagaaag gcattcattt tgtatcaatt gattgagact tttggggccc 360  
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<210> 43846

<211> 378

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-011-Q1-K1-E1  
  
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 ttagaaagat ttctggagct cacattgaaa ttattgaacc aaaatcctct cgtcatgagc 180  
 atattgctta catatctgga acctctgaac agaggcattc ggctgagaat ttgatcaaag 240  
 ctttcataat ggctacctaa gattccttct gtggtctgag aacaccattt catcaatttg 300  
 atctcttttg acttctgcta tccataattt ccctgggttt gtgaaccatt caaaaaaacg 360  
 tagtgttttc ttccacct 378

<210> 43847  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-011-Q1-K1-E6  
  
 <400> 43847  
  
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 ttctacctgt gtagccatgc tggcattcag ggaacaagcc gccctgctca ttaccatgct 180  
 ctgtgggacg agaacaagtt cacagctgat gagctgcaga ctctgacaaa caacctatgc 240  
 tacacgtacg ctaggtgcac ccgctccgtg tcaatcgtgc ccccggcata ctatgctcat 300  
 ttgggggtct ttcgagctcg cttctacatg gagccagata cttttgacag tgggcctttt 360  
 ttaatg 366

<210> 43848  
 <211> 459  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-011-Q1-K1-F10  
  
 <400> 43848

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aaacctttca ttgtgtcagg aaggatacac gcctagccat catcgttact gtgttccgat 120  
caattgtoga cctcttttat gtcattccaga tgatgataaa gttcaggact gcatatatta 180  
atccaagctc aaacttaggg gtttttggtc gaggagatct catcacagat cctaaggaaa 240  
tcgcaaagca gtacttgaga tctgactttg ttgttgattt ggtggcttct ttgcctttac 300  
cacagatcat tatttggctc gtgataccag ctatcaaata ttcttcgtct gagcatgggc 360  
tggctgctag catgctcggc ttgggaagtt ggtgaagaac aaggtcttcg tggcaagaga 420  
cgacttgtgg tacaacaaga atattgaccc ctcgagcga 459

<210> 43849

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-F11

<400> 43849

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taacttgaag gttcctccat ggtaccatag agaccctaca taaaagaaag gggggggggg 120  
ttgggtcaga aactttgaaa gggttctttt atatagcccc ctttgaaagg ggggctggag 180  
agagtacttt gcagtttagc gtcaatacat aaaagaaagg ggagcttctt ttatacagat 240  
acaacttgta gcatttccaa acagtccagg cagaggtata caaggtatac aactgcttat 300  
ttcatcacac gaccgcatat atgtcttgta gtatattagg tgtaatttag aatgtcttgt 360  
ggcaaaggca attttttaag tggcctaagg caaagctcac atttgatga caaatttggc 420  
tttatttttt tgcagtaatc tt 442

<210> 43850

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-F7

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gcgtcggcgc cgggtgagggc ggcggtcgggt acatgggata cgggctagaa cccggcgggtg 120  
 gggaggctgc gggagctctt cacaggcgac gcggtagatg ggtgggagaa gtcctgggag 180  
 tttggtgcga ccccatggga tttgtgaaag ccaacacctg tcattgaaca tcttgctaga 240  
 tcaggatcac tttctaattg gagagctttg gtttctggat gtgg 284

<210> 43851  
 <211> 239  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-G2

<400> 43851

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 ccaccatggg agatgagacc tcaacctcgg ttgctcccca ggaacaggaa ttcactgtgc 180  
 aagctgggag tgtcaagcaa cagcttttcg ggctggctcct tatgtccctt cgggctact 239

<210> 43852  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-G4

<400> 43852

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 gctgtggaga tgtggaactc attggttata gtgtgcttca atcatgggtc atggcgatgc 180  
 tgatggaact gatttgttac caaggtttaa gtgttcgcta ccgttggacg gcctgactgg 240  
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 tttttgacgg tactggacat attggtcgac aatttatttc ttggcag 347

<210> 43853  
 <211> 336  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3076-011-Q1-K1-G7

<400> 43853

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gcggccccag aggcgccccg cgacgccccg gcggcgccctg ctgccgacgc gaagccggcc 180  
atggccaaga aggccaccgc gccgataaag cgcgccagcc cgaccaccc gtcgtacgcc 240  
gagatgggtct ctgaggcgat cacgttgctc aaggagagga cgggggtccag cagctacgcg 300  
attgccaagt ttcgtggagg acaagctcaa ggccaa 336

<210> 43854

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-G9

<400> 43854

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tgatgagaaa accatacagc gcttgactgg ggcagacaaa aagaagctaa gaagaactgc 120  
caagggaagg tggtcacaag cttatgatgc tgaccttgat gccatccttc cttccaaggg 180  
tgagataaca gttgctaagc acccgaacca tggtcttgta tatggcatac aaggagagta 240  
tccaatgatt cttaacactg acgcaagagg tcatgaactg gttcctacag attatgccgc 300  
tttgaagggg accccatatg ttgccagctt ttacgcttaa agg 343

<210> 43855

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-011-Q1-K1-H11

<400> 43855

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gcgacgaatg gccccacca ccgccgcgcc acgctcgcgc cggaactgg cgccggaggc 180  
ccatgtggcg gagccggcg cgtgtccatc gacgtcaacg gcctgaagcg gcgtggcgcg 240  
gggaggcgct cgtgggtgcg cgtggacgcg gcgacggcg cgccggaggc cgtcgaggtc 300  
gccaaagccgg cgttgatgcg gcggctggac ctgccgcgc gggaccttcg tctnctcgac 360  
ccccctctcg tctaccgctc cgccatcctc ggccgcgagc gcgccgtcgt ctgcaacctc 420  
gagcacctgc ggtgcatcat caccgccgat gaagcgctcg ttctgcgcga a 471

<210> 43856

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-H12

<400> 43856

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gctttgatgg accctcagaa aatgaatcca acattctttt tgttgattgt ctctctactg 120  
attgcacaag gagagaagta gtcattttgt ttcgttggtt tcctggcttc aaggacatca 180  
gagtagtgca caaggaaccc agacgtagtg gtgacaaggc ctatgtcctg tgctttgtgg 240  
agtttgagaa cgcgaaattc gcacgcactc ccatgcaagc tttacaaggg taccgcttcg 300  
atgaccggaa gcctgacgac cgggtgtctg agatccattt cgcaagggtc ccgttcgc 358

<210> 43857

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-H8

<400> 43857

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tcagtttcgg tccttcagca gcctgccatc atcatctcag ccactgaag aacaacaaga 120  
agctgcagat aacctactga agatgttaga cctagcacca cctggaagag aggtcctcaa 180  
gcctgagttt acgccaaatc ccatcttgga gagatgttac agttaccttg atctcaagtc 240  
aaagcagcca gatgcaaattg tcccaccggt tgaaagatct ctaaggggga taaccgaacc 300

ctgtcctgat gtggttgccc aacaaaca

328

<210> 43858

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-H9

<400> 43858

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aaaaaaaaaga aaaaagaaga aaagagaaaa aaaaaaagaa aagaaaaaaa gaagaaaaaa 120

agaaagaaga aaagaaagaa ggaaaaaaa aaagaagaaa aaaaaaaaaa aaaaaaaaaa 180

agaaaaaaa agaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaagaaaa aaaaaaaaaa 240

aaaaagaaga aagaaaaaag aaagaaaaaa aagaaaaaaa aaagaaagag aagagaac 298

<210> 43859

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A10

<400> 43859

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gtggttacca cggacatgga tggtaagta gaaccactt gactttgcta tgtccacatt 120

tatcgtatcg gctctacatt tacgtctgta ttatcgcttt tatgattgga tgatgatgct 180

attcttgata gatgttacac gattttggag gcgcttagcc tccctttgat attcattctt 240

gttaggagat actgcaatac attgctatca tatgtgttat atactgtgat tacaatgcaa 300

cagtctaggt tgtatcaaac aaatacttat aatgctggcc aactctaaag cattgtgaag 360

tgt 363

<210> 43860

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C8

<400> 43860

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tcaaccatgg cggactccaa ggccacctcg gcggtcaccc tccgcactcg caagtcatg 120

accaaccgcc tgctggcccc caaacaattt gtgcttgagg ttatccaccc cggccgcgcc 180

aacgtctcca aggcggaggt gaaggagagg cttgccaaaga tgtacgaggt gaaggacccc 240

aacaccatct tcgtcttcaa gttccgcacc cacttcggtg gaggcaagtc cactggcttc 300

ggcctcatct acgataacct cgagtctgcc aagaagttcg agcccaaata accggccttt 360

tccatcagga atggtcttgc tactaatgtt gagaagtccc gcaagcaaata gaaagagcgg 420

aagaacaggg ccaagaaga 439

<210> 43861

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H4

<400> 43861

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ttactctcca gatacgagga gtacggcttc accatggata acgtcaagtc cctcctcatg 180

aacgtgttcc aggcattccat cgagacctca tatctggtgc tggagtccgc catggcctag 240

ctcatgaacc acaagcgcgt catgaagaac ctgcaaacgt gaagtactgt cgtacggagc 300

gcaaaacaag ctggacatta tcacggagga ccacctgag 339

<210> 43862

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H6

<400> 43862

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aagaatctga acggcaacag ggagaatgaa tcagacgact tcatttacat attactctac 120

agataactaag agtactgctt caccatagat aacgttaagt gccttctcat gaacttgctt 180  
 tatgcaacca tcgagacctc atatctggtg ctggaattcg ccatggccga gcttatgaac 240  
 cacaggaccg tcatgaagaa actgcaagct gaagtacagg cgtactgagc ttataacaag 300  
 ctggacatga tcagtgagga ctaccttagc 330

<210> 43863

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H8

<400> 43863

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 ccttaatgta cccgttcaag attatggagg tatctttgcg taaaaataat aatgaacgag 180  
 ttcaaagcaa acatatagac cttataatat ggtgctggag tccgccatgg c 231

<210> 43864

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-A10

<400> 43864

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 gaacatctac aaggaacaag gtgaggataa ctgacaggat gtgggagagg ctgctgtctt 120  
 caaccaacca accgagtttc ctgagccaga aggacatcga cgcggccaga gaagccgaca 180  
 aggcgggccaa ccgcatgaag agcagagagg acgcgaagaa gcaatctaca ccagtgttgg 240  
 caaatggtga gaaatagtgt gcttttgacg gttctttggt gtatgcagta gctgctgcaa 300  
 gctggctgag atcagtaggc caaaactgag aggtcgatga gttttacttc catttgcag 360  
 cgaacagaat tcacgtaata aaagcttcat agtgtgtatt tgcgttagta aacatatact 420  
 ggtgcgctgc 430

<210> 43865

<211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-011-Q1-K1-A11  
  
 <400> 43865  
  
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 tcaggagcca ccttaagctg ggtaaacc ccatttgaca cccgaagatt tcatgacct 240  
 tctaatactaa gtttccgctg ccgaaacct tttggatcaa ttcagccctg gtggctgcaa 300  
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 ccagattca 369

<210> 43866  
 <211> 468  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-011-Q1-K1-A12  
  
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 gcccttcacc aggacgagaa gaaagaaagg atggaaagg agctggagat aaagagaatg 180  
 caggcagagt tactggcca agctaaagag aatgaatcat gattgtcatt tgtccaatgg 240  
 tttcaggcag ttcctttatc gtatttctc tgctgtattt tccatgcaat atcttgactg 300  
 atgtatgctc atgtcagca cctccaataa agcgagacat gctatagcat tgttgaatgc 360  
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<210> 43867  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-A3

<400> 43867

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ccatgggcaa gattaagatc ggaatcaacg gcttcggaag gatcggcagg ctctgtggcca 120  
gggtcgcctt ccagagcgag gatgtcgagc tcgtcgcctt caacgacccc ttcattacca 180  
cggactacat gacctacatg ttcaagtacg acaccgtcca cggccactgg aagcacagcg 240  
acatcacact caaggactcc aagacccttc tcttcgggtga caagccggtc accgtctttg 300  
gcatcaggaa ccctgaggaa atcccggtgg gtgaggctgg cgctgaagta aatttgtcgt 360  
ggagtccacc ggcgtcttca ctgacaagga caaggctgc 399

<210> 43868

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-A9

<400> 43868

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ttggtccagg catgacgctt gagggggccc atatgccaaa gtattatgtg gcggctgtac 180  
aacacggaca acaggggtcca cgcccatgta ttacgcgtgg agctggagac caatgtcagc 240  
aacctgtgcc accattt 257

<210> 43869

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B12

<400> 43869

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gatcctaacc catctgatca ataaccaaaa ctagtactgc atggaggtta ctccaaagac 180

tctggctgac tttaatcggg ggcaactctca tctattacga atgaagagtt tatcttttga 240  
tagattgccc tagtatccga tgagcatgtg aatgaattca aatcaatcta taagtttaag 300  
aaattcaaca ctatacaact cttgggtgaa ccttaaagct ttcaattaga ctttttagagg 360  
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<210> 43870

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B2

<400> 43870

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gagcttattc agtatagaag gaatcagatg attaaacgag gaacagtaaa ggagcagcta 180  
gcagttgatt cagtgtccag gaagatgggt ggtttgtgtc cactcatgcc agaagagggtt 240  
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gagacttttg gtggacaaag aatgcttatt cctctacgag ctattgtttc cgggggctaac 360  
ctagtagacc gcacttcatt atgtagtcag agggagctgt ttgatttaat tgggccagag 420  
gatcctcgaa cccca 435

<210> 43871

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B3

<400> 43871

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<210> 43872

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B4



<400> 43872

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ccatggaata gtaagggggg taatgatgac agcaagaaaa ctgacacctg ggggtgctggc 180

tcgtcagggtg gggatcagga actttcttgg agcaaacctt atttctcttt gggggaccag 240

gaatctactt ggaacaaccc aagggttcagt gacgatgaca atgcgaataa tagagggtga 300

tttggaagtg gaaatcgagg caaagggaga ggaaggaatt ttggggattg gggggtggtg 360

ggtcacatg gaatggaggc aatagaaacg atgaatcagg tgg 403

<210> 43873

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B5

<400> 43873

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attctccgac gccgtctccg ctccgcgcgtc ttctccgacg tcgtcacctt cccctcgaca 180

aggttgctta gaagcagtgt gcagtgatgc gaggcattga tgcgagagtg caaagtggaa 240

gcaacacatg aagtcgacat ggagaaggaa aatgcaatga cagtccacat gaaacttggg 300

aaaaaagaat taaatcccaa agttcctaata gaagagactt ggaaatTTTT tacagtttta 360

tgttatattg gctatctatt tgtgtgaatg gagatgacct tgctggatgg att 413

<210> 43874

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B6

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cagcggtgcc cgactccaag aaatgtacaa gtcacggctg caggagctgt gccagaagcg 180  
 gcgatgggcg ccgccgttgt acgagcctac ccgagagggg cctgcccacg cgcctctctt 240  
 ccgcgccact gtcgtcgtga atggcgagag gttcagttcc cgggatgaag gggagaagtc 300  
 actcaaggag gcgtacaacc tcgcggtgat ggccgccttc gacaacctca atcggcgggg 360  
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 cagctgtctt accagagtc 439

<210> 43875

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B9

<400> 43875

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 ggcaagaac gagaactact tcgggcgcta aatcggccgc gaaatcagca tgagcatata 120  
 ccagagcctg aacgaagtcc ggaggacagg catggagact ctcacagatg cagctggaga 180  
 agacactagt gaattgccta gaaagttgca ccggacgac agactaccgg taacagtaat 240  
 ggaagcaggt tatgagccag atggcgagcc ttatggtatg aat 283

<210> 43876

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C1

<400> 43876

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 actcaccagc ctggacgctg aaccacaaga acgtgaaaaa tgcactgccc attccttctg 120  
 caagacactg acagcttcag atacgagcac tcacggcggg ttttctgttc ttccgaggca 180  
 tgctgaggaa tgtctttctc agctggacat gtctcaaaat ccaccttgcc aagaactggt 240  
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<210> 43877

<211> 166  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H3

<400> 43877

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attacatctc tggttacatg tgagggttga aaatcagtat ggaattatgg atgagtgtac 120  
caaccttaat gtacccgttc aagatttatgg tggatatcttt gcgtac 166

<210> 43878  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C11

<400> 43878

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gttcctcttg cacacatctt tgatcgtggt gtggaggaat tgtttatctt ccatgggtgcc 120  
tctattggat tctggcaagg ggatgttaag ctactagttg aagatattgg tgtgctgaaa 180  
ccaacaatta tgtgtgctgt tcctcgtggt cttgatcgga tattttctgg actacaagct 240  
aaaatttcct ctggtggggt tttaaagagt acaatgttta atcttgctta caaattcaag 300  
cagtttagaa tgatgagagg agctaagcac aatgaagctg cttccatatg tgacaaaata 360  
gttttttagta aggtgaaaga tgggtcttggt 390

<210> 43879  
<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C6

<400> 43879

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tgccacctgg tgattccggt gcccaaaca cctgcccaac gctcaacgat gttgggacgc 120  
cttagccgc taccacttct cctctggaaa tgtcaagaac aaacagtgag ggtcttactt 180

tcttggagta cgtttcaccc tagttcttct cc 212

<210> 43880  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F4

<400> 43880

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caacgagccc cctgccccctc cgtctcaaata accacgcgcc ctgatggacg acgtccaacgc 180  
catggatgag gatctgtgga tctccaaagt caaggagggc cagaacccat tcgatcacia 240  
acttaactac cactattaat 260

<210> 43881  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F5

<400> 43881

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tttaaagggtg gccgacaata tctccaaaac ctggctctta aaattaatgt taagggttgg 180  
ggcgttaata cagttctcga agatgcttta aataggagaa tacatttggt aacagattta 240  
cctacaatta tctttggagc tgatgttacc caccagctc caggggaaga tgcacacctg 300  
tctattgcag cgagatggtg tcagtggagg gcaagttttt ttttagccag gtcttgcttt 360  
atgaagtgga tgcaattcga aaggcgtgtg ccagcttgga agagggtac ctttcttcaa 420  
ttacattcat tgtgtgcaa a 441

<210> 43882  
<211> 441  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-010-Q1-K1-F6

<400> 43882

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gatcgaggag gcgccaatag cgagaggggt tctctctccc tccacggctc caacgagccc 120  
ccggccctct cgcctcaaat cccacgcgcc cggttgccgc ccgccccgc catggatgtg 180  
gatctgtgga tctccaaggt caaggagggc cagcacctcg ccgagcacga gcttcagtcg 240  
ctctgcgaat acgtgaagga gatcctcctc gaagagtcga acgttcaacc ggtgaatagc 300  
cctgtgacgg ttgcggtga catccatggg ccaaaggntt ttccatgacc tgatgaagct 360  
cttcgcgacg gggggccacg tcccagagac gaactatatt ttcatgggtg attntgtgga 420  
ccgtggcttc aacagtctgg a 441

<210> 43883

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-F7

<400> 43883

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ccgtatgaga ggttgtctat tatcagcaaa ggcttgcaat ttcaagaggc tgacgggtgac 120  
ggatcaccat cacctgaatc atctgctcgg aaggatacaa acccaatctt agtatcctcc 180  
aagtcgagga gagtgagggt tgtgctccca gaaaatgcgc agatcaacag ccaagtgcgc 240  
aacgagctgc aagagctgac tgaggcaaga gaggcaggca tgtccttcat catggggcgc 300  
tcgtatatga aggcgaaaag tgggtctagc cttgatngna aaaaagcggg ttgccataaa 360  
cttcatctat gagtctctga cgaggaatag ccgaggtccc gnctacgcgg ctaacgtgcc 420  
acatg 425

<210> 43884

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F8

<400> 43884

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ttaattggtg atatgggttac tgaggaagcc ttacctacat accaaacaat gcttaacact 120  
cttgatggag tccgggatga aactggtgca agtccaacca cgtgggcggt ttggacaagg 180  
gcatggacag ctgaagagaa cagacatggt gaccttctta acaagtacat gtaccttact 240  
ggaccgggtg acatgaaaca aattgagaag accatacaat atctgattgg ttcccgaatg 300  
gatcctggaa ctgagaacaa cccctactt 329

<210> 43885

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-G1

<400> 43885

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agcgtgattc catggccttc acattggcaa agcatcacct ttcaggcttt gtcttccagt 120  
ccagcgattc tggcacaatg ctgcgaaaaa aactggtcaa atcgcttatt cggtgctatg 180  
cacagaagcg gcatcatgag gttatgctta agtgcttcgt tcagcaaggc atcgcacagg 240  
attccaagag cagtgagctt gaccggagat ttgaaatctt gaaggatgct tgtgagatga 300  
actccaacct cgtaggtgaa gtccatagac ttttgnnaaa ggcatgtctt ggccaatgaa 360  
gccagatatt taagtgtgtc attaacttgg cagcgttagt tgttgggaaa gctcgacaaa 420  
gtggcccaaa atatg 435

<210> 43886

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G10

<400> 43886

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atacagatcc cccagaaaa ccagatgtca ttatgagact ttacctccac tttacctctc 120  
 tacatagtca aaacaaagaa catgaaaata agaatactta aaaacttctt aattggacta 180  
 agtatattct aacttctaaa attcactaca acactcaata actattatct taacagaatt 240  
 aacaaaatcc aa 252

<210> 43887

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G12

<400> 43887

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 cctgtaattt tataaatatc atcttgccac tgtcaaattc aacctctcat tcttaattgta 120  
 ctactaataa aacatataac tctactcaac gacgaataat attctccact atcaatccat 180  
 ttgaccacta atactactat ccaaaagtat ttctaccttg acactctaac aactcctaca 240  
 ttatccctac atatttcctt cctcttatta tctctatata catcacactc cactattaca 300  
 tgctacttac caactcataa gcactagcta ctcatgccac acatgaaaac ttttacaata 360  
 tatcaatctt acctcccttc accaaca 387

<210> 43888

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G2

<400> 43888

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 gcatttcaag aaggcatttc catctgaaga attgttatct gcaggagaca acaaagctgt 120  
 tgagtctgtt tgcaggatac tcagggtttt ttatcatgct gtcgaagtga tttgtagtcc 180  
 tatctgcccc acagcaaattg tgtacttcaa tgaactgtgg aaagttagaa cagttttgca 240  
 agaagaagca tcaactgatc tcattgaact tgctaacatg gtttgggaga tgcaggaagc 300  
 attcaatgag tactggcaaa attcatactt gtggcttttt tcccgggaat acctgttggt 360

cttgatccca gattcaaaat tactttttatc gagttccggt taaagcgagc ttttggtacc 420  
aatgcggaaa agtatgtatc tgccattcgg 450

<210> 43889

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G3

<400> 43889

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cttgcttgtg gctgtgacag gaatactaga agccaaggaa aagtgatgtt ggatttatag 120  
gagaaaaaaaa aggagattga atggcaacat aatggtagct tccactttct tttggtcttt 180  
tagtccctac ctttttaggg gataggtcta ctttaaccaca agaggagaag atgccattag 240  
ccttgattaa gaaaaccgcg gcatatgcca tattatcggc agatattagt atatatatat 300  
tatatatacc aataattccc tatattctag atttaaattt atatatagta tctgtactta 360  
gtatttaaca gtagcaggta acgtcagccc aaagattttt actgtgacaa ggtcctacaa 420  
ctacagccac cttcactagg t 441

<210> 43890

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G4

<400> 43890

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tgcatttggga gaatgcattt cggctctggag aatagttatc tgctagatac aacacaactg 120  
ttgagtctgt ttacaggata ctcaaggcta cttatgatac tgccgaaacg atttctagtc 180  
ctatatggcc cacatcagat gtgtactaca atgaactggg catagttagc aacagctttg 240  
acgtaaattgc atgaactgaa ctaaacaact tgctaacatg atacaggag atgcaggatg 300  
cattcaatga tgtact 316



<210> 43891  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-010-Q1-K1-G5  
  
 <400> 43891  
  
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 gtgaagaatc acaggaacct accaagcgac gcaatagact gggttcagca ggccttgcac 180  
 cgtattacgc caatatcatc agtcagatcg atactcttgg ttctcgttca agctctgttc 240  
 cttcaaatac aagggatata ttataccaaa gtttgcacc aaccataaag tcatctgtcc 300  
 gttctaagct aactgcttt ggagtcaacg aagagccttt ttaaaactgt atctcaaa 358

<210> 43892  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-010-Q1-K1-G6  
  
 <400> 43892  
  
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 cggagcggcc gtccgaggcc gcgcgcggc gaatccagcc gtcgccacc gtcgcgctga 180  
 gccgtctcta cgacacctgc aactacggca ggctgcagct caacaacggc ctgcgcgtca 240  
 ctccccagat ggcgtggaac agctggaatt tcttcgcctg caacattaac gagacggtca 300  
 tccgccagac acctgatgcg ctggtgtcca cgggggtaaa accctggctg cgctgggcta 360  
 caacttcgta catctcgatg attgctggtc atacctgaaa cgagtgccgc aggatcaatt 420  
 gctgcctgat ccaaagactt 440

<210> 43893  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-G8

<400> 43893

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ggctcgtggc cagggtcgcc ctccagagcg aggatgtcga gtcgtcgcg gtcaacgacc 180  
ccttcacac cacggactac atgacctaca tgttcaagta cgacaccgtc cacggccact 240  
ggaagcacag cgacatcaca ctcaaggact ccaagaccct tctcttcggt gacaagccgg 300  
tcaccgtctt tggcatcagg aaccctgagg agaattcncc ctccgtgggg tgaggctggc 360  
gctgagtatg tcgtggagtc caccggcgtc ttactgaca aggacaaggc tgctgcacat 420  
ctcacgggtg gtgcaa 437

<210> 43894

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H11

<400> 43894

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ataaaacctg cactacttgc agacggtaga atccgacata atattagaca aatatataga 180  
cgatgaccat gccataaca ttcttgcct caagagcaat gagccagcaa atccagagaa 240  
catcaagcat gaaatgaata acgactaaca gatccagaat catacaactg ataaagatac 300  
tttcct 306

<210> 43895

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H12

<400> 43895

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 tttttggaag ctactctctc ccctgttcgg ctacctaaac agcttaaggt tgtcacgttg 240  
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 gtaattgttg gaagtatagt acgtattgac aggaatcctg ggggactacc agactggctt 360  
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 ctttcataca ttcatatc 438

<210> 43896  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F3

<400> 43896

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 cttctgtttt atctggcaat tacgttctat ttttcaaact gtacaagaag gcacccaatt 180  
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 tgagaactga tacaggctgt gcaactcaat ggggaggggg atgatggatt agaagaatgc 360  
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 atagacatg 429

<210> 43897  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D3

<400> 43897

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tatatcacat catctaagct tccacgagaa gtaaaagttt acatgacaaa tctcacctat 180  
 caagcagaca ggtacaatat gatccacaaa atcacaaaca ttgtagccac tactgtaaac 240  
 tccctcacat tcattgtcca agaatgaatc cttctatctt ttgcattccc caacgccatt 300  
 tg 302

<210> 43898  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D4

<400> 43898

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 ccaagaagaa taggaagtcc actgagactg ttgagcttca gattagtctg aagaattatg 180  
 atccacaaaa ggacaagcgt ttcagtggct ctgttaagtt gcctcacatc cctcgtccaa 240  
 agatgaaggt gtgcatgctt ggtgatgcc agcacgttga ggaggctgag aagatgggac 300  
 ttgactacat ggatgttgag gccctcaaga aaatgaaaaa acccaagaac aagaagcttg 360  
 ttaagaagct tgccaagagt accatgcttt tttggcatca gagaccatca tcaagcaaat 420  
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<210> 43899  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D6

<400> 43899

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 atcccatata gttcatgatg ccaagtaaca ataggaagtt cactgagact gttgaacttc 180  
 agattactct gaagaattat gatccacata aggacaagcg tttcagtggc tctgataagt 240  
 tgccctcacat tcatagtcca aagatgaagg tgagcatgct tggtgatgcc catcacgttc 300

aggatgctga gaagatggga cttgactaca tggatgttga ggccctcaag aaaatgaaaa 360  
aaccccaaga acaagaagct tgtaagaag cttgcctaga agtaccatgc ttctttggca 420  
tcagagacca tcataagca aatt 444

<210> 43900  
<211> 277  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D7

<400> 43900

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gagaacatgc ccaagtttta ggccgaggag ttcaagaagg tgaacggcgg acgagagatc 180  
gaaggagctg tcaagaggag ttacctcaag actgacgagg agttcctaaa gagggacgag 240  
agcggcagct cgtgctgcgt aacatccgtt ctacaaa 277

<210> 43901  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D8

<400> 43901

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ccaagaagaa taggaagttc actgagactg ttgagcttca gattagtctg aagaattatg 180  
atccacaaaa ggacaagcgt ttcagtggct ctgttaagtt gcctcacatc cctcgtccaa 240  
agatgaaggt gtgcatgctt ggtgatgcc agcacgttga ggaggctgag aagatgggac 300  
ttgactacat ggatgttgag gccctcaaga aaattgaaaa accccaaga acaagaagct 360  
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aattccccgt c 431

<210> 43902

<211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-010-Q1-K1-D9  
  
 <400> 43902  
  
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 taccaagcac aacgcagtga acacgaccac catgaacact tcccatgcc aaaagaccct 180  
 acccacgttc catttctaca tcaccgatgc ccaccataaa aaacagaaca cacacgccac 240  
 acataacttc tatactaca acatctacat actcaatgca cttacacaga cgctccatca 300  
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<210> 43903  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-010-Q1-K1-E10  
  
 <400> 43903  
  
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 ccaacaccac ctccccaatc ttatactacc ctccacacgc ctaccccccc ctcaaatacta 180  
 tccttcacaa acgacatcca aaaaaatata accaatatct aactcacct ccatcactac 240  
 atggatcaaa actacctaca taactgctaa ctccccaact cccatatacct tacaataaaa 300  
 cttattcaca atacgcaaac acaacaatca 330

<210> 43904  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-010-Q1-K1-E11  
  
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 gggtgccaag aaaataaaac catttgggtc ggtgacctcc agtactggat ggatgaaaac 240  
 tacctacata actgcttcgg gccacgcggc gaggtgggtta caataaaagt tatccgcaat 300  
 aggcaaacag gacagtcaga ggggtatgga tttgttgagt tcttttctca tgcacaaaca 360  
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<210> 43905

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-E2

<400> 43905

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 ggtgagaagc caatgatagt tggtcagcac aagggggagg agaaacagtt tgcagccgaa 180  
 gagatctcct ctatggttct catcaagatg cgtgagatcg ctgaagctta ccttggcagc 240  
 acgatcaaga atgctgttgt cacggtcctt gcctatttca acgactcgca gaggcaggcc 300  
 acaaaggatg ctgggggtgat tgctggcctc aatgttggcc cccttgcgta tcatcaatga 360  
 gccaacccgt gctgctattg cctatgggtc tgacaagaan gcaaccagtg tcngtgagaa 420  
 gaatgtcctc atttttg 437

<210> 43906

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-E3

<400> 43906

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 acacgggtgc caaggtcgtt gtgctgcggt ggtggcagga catgaaggaa acgaaaaagc 180

atgagccagg gctgttcaac aacgtgaccg agtcacttag gcgaggaaga gtaagggtgaa 240  
 tgcactcgtc gacgcctttg agactgacag agcgttatct agctgcagga aaccatcaag 300  
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 gacct 365

<210> 43907  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-E5

<400> 43907

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 ggtgagaagc caatgatagt tggtcagcac aagggggagg agaaacagtt tgcagccgaa 180  
 gagatctcct ctatggttct catcaagatg cgtgagatcg ctgaagctta ccttggcagc 240  
 acgatcaaca atgctgttgt cacggtccct gcctatttca acgactcgca caggcaggcc 300  
 acaaaggatg ctgggggtgat tgctggcctc aaatgggtctt ggggtctgct atcatcaatg 360  
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 agaatgttct catttttgac cttgg 445

<210> 43908  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-010-Q1-K1-E6

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 acacgggtgc caaggtcgtt gtgctgcggt ggtggcagga caggaaggaa acgaaaaagc 180  
 aggagccagg gctgttcaac aacgtgaccg agtcgctgag gcgaggaaga gtaagggtgaa 240



ggcactcgtc gacgcctttg agactgacag agcgtcatct cgctgcagga aaccagcaag 300  
cctgctgctg ctccagctat gaaagtaagg ttnggttttc cgtgccatga gtgcttcttg 360  
acctgcagtg tgcattgatca cctttcttgg aatttttggg ctttttttggg tgtagtgac 420  
cgtaaaagtg gcg 433

<210> 43909

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-E8

<400> 43909

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cgcgaaaaag gagggcggag gctcgatggc ggatgagaat caggctggaa agaaagagga 180  
ggaggaattt agcacaggcc ctctgtcagt cctaattgat agtggttaaga acaacaccca 240  
ggtcctcatt aattgtcgca acaacaagaa gctgcttggc cgtgttcgtg cttttgatcg 300  
ccactgtaac atggtgctcg agaactgtcg ttggnaaaa ggatgtggac agagatcccc 360  
aagactggca agggcaaaaa gaaggctctg cctgtgaaca aggatagatt catcagtaag 420  
atgttcc 427

<210> 43910

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-E9

<400> 43910

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ctgggtgctt gcgccgcac ccgaccggg acctcgtctg gatcctgcat caacgggtgc 180  
gaagaaaata aaaccatttg gtcgggtgac ctccactact ggatggatga aaactaccta 240  
cataactgct tcgggcccag cggctacgtg gttacaataa aagatatccg caataggcat 300

acacgacagt cagaggcgta tggatatgga gagtcgtttc tcatgcatct gcataaacag 360  
ctcttgatat tttaactggc catgtgat 388

<210> 43911  
<211> 277  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F10

<400> 43911

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ccacccacccc cccaccccccc ccccccccccc cccccaacac ccccccacca cccccacccc 180  
ccccccacccc cacacccccac cccctccacc ccacccacccc acccccaccc ctcccaaccc 240  
ccccccccccc ccacccccccc ccccccccccc cccccccc 277

<210> 43912  
<211> 380  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-010-Q1-K1-F2

<400> 43912

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tttaaagggtg gccgacaata tctccaaaac ctggctctta aaattaatgt taagggttgg 180  
ggccgtaata cagttctcga agatgcttta aataggagaa tacatttggt aacagattta 240  
cctacaatta tctttggagc tgatgttacc caccagctc caggggaaga tgcacccccg 300  
tctattgcag cgagatggtg tcagtgaagg gcaagttttt tttaagcca ggtcttgctt 360  
tatgaagtgg atgcaattcg 380

<210> 43913  
<211> 330  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D2

<400> 43913

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ctctctccgc ccgcggcccc tccaggccca tgccaggcgc ccgcggcagg gtcgcaggag  180
ccgccgaggc gggcggttcca ctgttctacg cccccctggg ggttcaggtc cccccccgcg  240
tcgtggggccg gtccctatcc gggggagggc gagggcgagg gcgtggatac tggggctgag  300
aaggggctgg agatcgcgag gctggggacc                                     330

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<210> 43914

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-B2

<400> 43914

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gatacgaagg gctgtgaaaa agctggttct ctccctccac ccaaggaaag aagatttgca  180
gttctgatat caactatgat gtcaagccag acaaaagatg aagttacaca tgctgctgtg  240
gaacgcctct ctgaaaacgg tttacttgat ccggatgcta tagtgaggac tgatgagacc  300
acgcttgoga atcttatcaa acctgtcgga attttcccct atcagcgaaa ggcgagttc  360
ataaaagaag cttctaaaat ttgccttgag cgctttggaa gggatatttc ggattctctg  420
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<210> 43915

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-B3

<400> 43915

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 ccaggaacat ccttctctcc gagaagcagt ggcggttggg ggggtgtgcag cagagccgcg 180  
 ggtgggtgca ctactcgatc caccggccgg agccgcacat catgctgttc cgccggccga 240  
 tcaactacca gcagcaggag gaggaagcgg ctgccgcgca tgtgctgccc aagtgaagcc 300  
 tctgctggcg accaggaatg ttaaaaactc tncactctag ccctcttttc atctctaaaa 360  
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<210> 43916  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 43916

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 gttatctggg gaagcccccg tagatacgaa gggctgtgaa aaagctgggt ctctccttcc 180  
 acccaaggaa agaagatttg cagttctgat atcaactatg atgtcaagcc agacaaaaga 240  
 tgaagttaca catgctgctg tggaacgcct ctctgaaaac ggtttacttg atccggatgc 300  
 tatagtgagg actgatgaga ccacgcttgc gaatcttate aaacctgtcg gaaatttttn 360  
 cctatcagcg aaaggcgagc ttcataaaag aagcttctaa aatttgcctt gagcgctttg 420  
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<210> 43917  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 43917

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 gttctgatat caactatgat gtcaagccag acaaaagatg aagttacaca tgctgctgtg 240  
 gaacgcctct ctgaaaacgg tttacttgat ccggatgcta tagtgaggac tgatgagacc 300  
 acgcttgcca atcttatcaa acctgtcngg attttttncc tatcagcgaa aggcgcagtt 360  
 cataaaagaa gcttctaaaa tttgccttga gcgctttgga ggggatattc cggtattctct 420  
 gaatgaactg cttgctct 438

<210> 43918  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-010-Q1-K1-B8  
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 ccaacaacat gcttctatac gagaagcagt ggccgttgat gggagtgcag aagagccgca 180  
 ggtgggagca ctactctatc caccagccag agccgcacat aatgctgata cgccgccgca 240  
 tcaactacca gtagcaagag gaggaagcgg ctgcctagca tgtgctggac aagtgaacc 300  
 tctgctggcg accatgaatg ataaaaaccg attttt 336

<210> 43919  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-010-Q1-K1-C1  
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 cttctactac ctccggggcc acctccacca gacctgggtc gtgccccgct acggcttcca 180

gtacttcctg cggcgggcga agaagggcat caaccagcag atcgagctgg ccatcctgcg 240  
ggccgacagg atggggtca aggtgctcag cctcgccg cg ctcaacaaga acgaggctct 300  
gaacggagggc ggcaccctgt tctgaaccc aaaaagggca cccggacctg cgcgtgaggg 360  
tggtgcacgg caacacgctg acggcgccg tgatcctgaa cgagatcccc agcaacgtga 420  
gggaagtgtt cctg 434

<210> 43920  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-C10

<400> 43920

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ctcttaaccc aatccctcta ttaatctacc tacaacatac acaaacacca tcaaaccct 180  
ccttttcata tacacatttc aatctatccc aacctatctt atcaatacac accaactaca 240  
acatcatcac actctcctca tattaatact ctaaacaatca atctcctata cacctacaca 300  
actcacataa tctccactac catcatcatc tgccaacct 339

<210> 43921  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-C2

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cgagaaccaa ggttttatac caaggtattt aaagagggcc attcatttga tcaagatgga 180  
ggttcgtttg aactttctct agtgacctgt aaatgcattg gggcttatgt caaaaacaag 240  
aagaatcaaa accagatatg ctgggttatgg gaaaaggtaa aatcaacaga agacagagat 300  
tttcaaagat tcttgacaa cgtgcaatac aaaacataag ggttttggga tattacgtta 360

tgagcgtgtc tttggtgaaa gttttgtgag cactggtgga atcgagacta caaaggaatt 420  
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<210> 43922  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-C3

<400> 43922

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aggcgtactt atgagaagga gcgacttgat gctgaactga agctgggttg tgagtatggt 180  
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<210> 43923  
<211> 378  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ggcccaagtg ggggtgagag aagagcaagt tcccgtagac ctactccgcc aaggagacgt 180  
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ccctgcggcg ctcgatgt 378

<210> 43924  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-010-Q1-K1-C6  
  
 <400> 43924

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 cgtccttatg agaaggagcg tcttgatgct gaactgaagc tggttggtga gtatgggctg 180  
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<210> 43925  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-010-Q1-K1-C7  
  
 <400> 43925

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 tcgtgggccc gtccctatcc gggggagggc gagggcgagg gcgtggatac gggggctgag 300  
 aaggggctgg agatcgcgag gctggggacc ttttnngggn ccgcggatcg tgga 354

<210> 43926  
 <211> 186  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3076-010-Q1-K1-C8

<400> 43926

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atcttaagac gttcaagaaa ctatctcgtc cttatgataa tgaacgtctt taccctgaac 180  
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<210> 43927

<211> 319

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-C9

<400> 43927

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cgttccgat cttgattctt gccaatgcgt gcaagatttc tgcttcgccg aggttaaatt 180  
ttattcttct gtcgaccttc tgccgacaac ccgcacgttt gcttggtgcc ctctatttgc 240  
ctgctactca ttgcgctcca atcctatgct aatggaacga tcctactcaa cattgccatc 300  
gtcacttcta ccatattcc 319

<210> 43928

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D10

<400> 43928

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ttcccaaccc aatactctca gctgcgactt taatatttgt catgcgttat ataccatgta 180  
gcttaatctt ccgtgcatga tcacattgca atattgctga tagctcacac actcatctca 240  
tgattactcg ctacactatc ttatatcgca ctctacatgt gctaacacac ttcaaaatca 300

gcttcatagg tcagtaccct gataactatc atagaacaga cctatataga caatatctac 360  
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<210> 43929  
<211> 226  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tcactcaatt cattaanaact ctcctaattc aatactctct actatcacta tcactctttaa 180  
catttttcat ataacatata ccttaattaa catacactcc tcacaa 226

<210> 43930  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D12

<400> 43930

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taaacacctc gcaattacca cgatcaccat taacaccatt cattccaaat ataccataaa 180  
aaatatgcaa cctacatga ccaatacaca ccattcataa cagcacacac acacaacaca 240  
tcaatactct aaacattaca accaaacaca ctgcacaagt ccacata 287

<210> 43931  
<211> 333  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-010-Q1-K1-B11

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 tgcctaagcc acaaacaact catcgtctga caataccttc acctcctacg gcgagatccc 180  
 tcaactcaac gacattacct accgggagac tctgatgtta tcccnagtgc cgaccttcac 240  
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<210> 43932

<211> 196

<212> DNA

<213> Zea mays

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<400> 43932

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<210> 43933

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-G4

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 cagctgactc cgactaatga agaaaaatct tgggacaaca taaggaggc taaagaagcc 180  
 tatgcctcta gcggtaggca gcaagagcaa gctaacaggc aagatcagtt aagctcccag 240  
 tttgcttcga aagctcaggt tggccctacc cctgctctta ttaaggctga agtgccttg 300  
 tcagcccga gaggcaatct ctccgagaaa gaaagagtct tgaaaacggt gaaaggtata 360  
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 tggaggtcag gttcaccaag ctcttcacg acggcaagtt cgtcgacgcc gtctccggca 180  
 agacgttcga gacccgggac cctcgcaccg gcgaggtgat cgccagcatc gcggagggag 240  
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 ggcccaggat gacgggatac gagcgtggtc ggatccttca caggttcgcg gacctgatcg 360  
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 <213> Zea mays  
  
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 gagtctcaga tcgcaaccag gaaggcttag agaaggggct ctatcttctg tgattggctt 300  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 ccgctcttac cgggtgctct catccagctt ctacgggtcaa gacacgcatt tgcaccaagt 180  
 acaacactac agaaggctgc aagttcggtg ataagtgcc tttcgctcat agcgaaagag 240  
 agcttgcgaa gccagcctac atgtctcaag aaggacctcc tatgggtggg cgatatggac 300  
 gagctgaacc tatgcaacca gctgccatgg gccctccagc aggaaacttt ggtgcctcgg 360  
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 <211> 401  
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ggaccacgcc ggcgaggaga gctgcaccct gttcctctgc tccatcggcc tgcgggagta 240  
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atatggaggt caccgaagag gaagaaaggg aagtcgtgga ctctgatgtg gagggtttca 360  
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<210> 43939

<211> 390

<212> DNA

<213> Zea mays

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<400> 43939

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gagacagctg aagctgcaaa acgtcttgaa gaaaagaaac gaagtgaacg tgaaatgcgc 180  
aaagcagcag caaaactaga gcgtgagaaa ctgaagcaag agaaagagtt aaagcaaaaa 240  
gaggaagagg aacagaagaa gaaaagaggt gctgatgtgg caacaaggaa gaggcagagg 300  
gatgaggagg aaaggaggga gaaggagaga aaaaggaaat gcattgaaga agctcgaaaa 360  
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<210> 43940

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-H4

<400> 43940

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atatagaaaa tagtttgcca ccattttctg cggtcactta tgcacagatc agagtgcccc 180  
ttgtgttact tctggttggt tcatcaaaaa atttctttat ctttgctttg ctaagtatca 240  
tacttaatat atatctggag attcccaatt ttgctcaaaa tggcactggg actagaattt 300  
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<210> 43941  
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tcttccgcga tttccgcgcg egccgagccg gcatcgtaaa ggcgctcacc acggatgtgg   180
agaagttcta tcagcagtgc gatccagaga aagagaactt gtgcctttat ggtttgccaa   240
atgagacttg ggaggtcact cttccagctg aggaagtacc tctgagctt ccagaaccag   300
cactggggat aaactttgcc cgtgatggaa tggtcgaaaa naaaaaagac tggttgtctc   360
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<210> 43942  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-010-Q1-K1-A3  
  
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tacaaacttg taattgcact gacctaccg gggcacctcc ttggctgctt gcatcacaac   180
tgcacaaaaa tcccatgaga atacacaaca acgacaacga tcgatcaacc aaccacacac   240
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<210> 43943  
 <211> 430  
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<223> Clone ID: LIB3076-010-Q1-K1-A4

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tcttccgcga tttccgcgcg cgcgcgagccg gcctcgtcaa ggcgctcacc acggatgtgg 180  
agaagttcta tcagcagtgc gatccagaga aagagaactt gtgcctttat ggtttgccaa 240  
atgagacttg ggaggctcact cttccagctg aggaagtacc tcctgagctt tcagaaccag 300  
cactggggat aaactttgcc cgtgatggaa tgggtccgaaa aaaaaaaga ctggttgtct 360  
ctagttgcag ctcatagtga tgcattggctc ctgtctgttg cattctattt tggaaactcg 420  
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<210> 43944

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-A5

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tgggctgcac caccacacgc gtcacccga ggacgtcttc cgcgatttcc gcgcgcgccg 180  
agccggcatc gtcaaggcgc taaccacgga tgtggagaag ttctatcagc agtgcaatcc 240  
aaagaaggag acctgggccc ttaatggtt gccaaatgag acttgggagg tcacttttcc 300  
agctgaggaa gtccctccta gagtttccaa 330

<210> 43945

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-A8

<400> 43945

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cagtactatt ataaagggca tgtgctcttg aaaaacataa agtcatctca ttaatcccc 120  
 atatacacca tagtcattga aaaaactctt tctctactca taccattga attaaaatac 180  
 acatttataa aatcaactat catatcaact catacaaaat atcaagatac acatactact 240  
 cactaacgcc tctctgaaaa ccatttacat t 271

<210> 43946  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 43946

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 tggactgtat taatctaaca tagttgatga aaaaaaaca acgacgtatt acaagttaac 180  
 catgtacgaa gaaaataaaa caggcaaaaa tcaacatggc ttcattagcc acggtaccac 240  
 tctaccaacg gttttccatc catcgtgact tgtgcaatta ccgcagtaca cttctggtct 300  
 ttgagttggt gactgtcttg ataagctggn ttnaaaccca tccaccggtc aagcattcct 360  
 gtcatggcga atgtgccacc aagaactgca catagacgag ttacaaaatg aaggaagttc 420  
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 attctttcga accctgctca tctatcgccc ttacaacaat gtgaccacaca tcgacaaata 240

cctctatgct cgtaccgtgc tcgcactaac tatgaaatat tccaccanca cgtgcaactt 300  
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<210> 43948  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-009-Q1-K1-G2  
  
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tgcagttcgc gcagacagcc gccatcatgg agatcggtca tgggctcgta gggttgggtga 300  
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<213> Zea mays  
  
<223> Clone ID: LIB3076-009-Q1-K1-D8  
  
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caagtcgctg tatcacctta gcccatggac gctcgcaatg ccttgatggc ttgacctctg 300  
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<210> 43951  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-009-Q1-K1-E3  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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caaagcgcca ccgtaagggtg ctccgtgaca acatccaggg catcaccaag cccgcgatcc 180

gtaggctggc tcggaggggc ggcgtgaagc gcatttcggg gcttatctac gaggagaccc 240

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<223> Clone ID: LIB3076-009-Q1-K1-E5

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ctgtcattat atttccaaga ccaactgctt aatcacttta ctctcattgc acaatgccac 180

aatatttaat acaatatgaa gtcaatgcct tgaattatac tggctcttga cgatt 235

<210> 43954

<211> 407

<212> DNA

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taattttctca ggctctacag cgacgagacc aggagcaacc accgctagat cgggcgagat 180

ggatggacag tgaagaggcc atgtttgctg gtccttgatg ttatctaaaa cgcacgcagt 240

ctctattata gctagtcac actatatata tacttggtgt tgtgtattgt tgttcttggt 300

ctgctggtgt ctacgccgat taatttgacc tatgttatgg agtgagtgat atatgtgccg 360

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407

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<212> DNA

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tagtacacga gatataggtc aaagaaaaaa ttagtatatt ctgtctcaca gtatattcta 120

aaaattccaa aatttaagaa aaagggaac ctgggtgatta attgaatatt tagagggacc 180

taaaatttga agcctatggg ctaaggacac tattgc 216

<210> 43956

<211> 288

<212> DNA

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gtacaggccg atcgaggctg aaggatcatc tctgggctgt atggtattgt agacacaaat 180

aatcatctgg gctgggctgg gcatgcaggt aatagtgggtg tgcactagtt ctgaggttat 240

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<210> 43957

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-F11

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 <223> Clone ID: LIB3076-009-Q1-K1-F2  
  
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 gtacaggccg atcgaggctg aaggatcatc tctgggctgt atggtattgt agacacaaat 180  
 aatcatctgg gctgggctgg gcatgcaagt aatagtgggg tgcactagtt ctgaggatat 240  
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 aaaatgggat atcatgcagt ggactcctga tggatatgtc gtaagtagaa ttgccactc 300  
 taacagctgt atctctttca tctccagctt ggtaggcctt ggtttattct attaaatagc 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-009-Q1-K1-F4  
  
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 cctgtgattg ctctctgcat aggcttacga ttcgctagat ccaaattggca atatcactat 240  
 aaaatgggat atcatgcagt ggactcctga tggatatgtc gtaagtagaa ttgcccactc 300  
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<210> 43961

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-F5

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 gatctctgtt actacatgtg cctacatggt gcatacagag cataaactaa agcatgtgat 180  
 gatggcctct tagacgctta ctatagaggc acaaatatga aactaccagc atgtactata 240  
 gctctaattc tagatctttt acctactatg agcactgaat gatggcataa gtagctatca 300  
 aatacttaga agactttaaa attgactcaa tggatctgaa gataaatatc att 353

<210> 43962

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 ggatgatctc ggctcaattg tagtgcgcca tccaagcatc cgctcgtgt gagctttctg 240  
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tgggctacta tgctaatacct caaagcgtga ggggggcatt tacctnctag tttgtcattt 360  
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<223> Clone ID: LIB3076-009-Q1-K1-F8

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 ggatgatctc ggctcaattg tagtgcgcca tccaagcctc cgcctcgtgt gagctttctg 240  
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 tgggctacta tgctaatacct catagcgtga agggggcatt tacctactag tttgtcattt 360  
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<210> 43964  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-009-Q1-K1-F9

<400> 43964

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 ttctgtttca gtttggtcgt tatctactca tttcgtgctc aaggcctgga acccaaattt 180  
 ccaatctaca aggatattgg agcaatgaca ctttaccacc atgggatgca gcaaccctc 240  
 caaatataaa tctacaaatg aattattgcc ctgcgctttc tttgaatctt accaagtgcc 300  
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gtg

363

<210> 43965

<211> 424

<212> DNA

<213> Zea mays

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<400> 43965

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tcagtcctgc ttgtccgcag tccacagtgc gccctctatc ctctgctgtg ggatctgcag 180

taccatctgc ttgggctca gcaactgcat tcgcttcagc ctctgcacta ccgtccaagt 240

caagtcgctg tatcacctta gcccatggac gctcccaatg ccttgatggc ttgacctctg 300

atggagagga agtaaggatg gaaatcacga ttgtttgttg actttgtgag gccgtaaaaa 360

ttgagatgta tttttaatat ttttgaata ctaacctatg caaatatgtc tacacggttg 420

gatg 424

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<212> DNA

<213> Zea mays

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tctacctctc cgtctacaac tgggtcgtct tcttcggatg ggcgcaggtg ctgtactacg 180

cggctcctgac gctgcgtttg agcgggcaca aggccgtcta tgccgccgtc gagaggccgc 240

tgcagttcgc gcagacagcc gccatcatgg agatcgttca tgggctcgta gggttgggtg 300

ggctctccggc ctctgcaact ctccacaga ttggatccag gttgttcctt acgtgggggtg 360

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 <213> Zea mays  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-009-Q1-K1-A5  
  
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 aaaatccaga gttgcactca ggcaggacac tttggaacgc aataaacggg tcggcacttc 180  
 tttaacttcc catagggttac aatttcaatt tgattttctc tgaccacttg aatatatctg 240  
 aataaacctg atcgccacca atttcctcac cggttgcccc agcagctatt ctgatgacgt 300  
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gaggggaatta gggagcttca ggcggatccg taacatccgc gaacggcggg aaccagggag 180  
cttcagtcgc ctaaaaccgg agtcccaat cgatccactg 220

<210> 43970

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A7

<400> 43970

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gaagtacata gttagactca ggcaggtcac tttaaagcgc aatcaacggg tacgaactag 180  
tttaacttgc cataagctac aatttcaatt cgatccactg tgaccacttg catatctctg 240  
aatgaacctg atcgtacca atttcgtcac cgggtgcacg agcatctatt ctgaagaccc 300  
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<210> 43971

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A8

<400> 43971

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ggaggacctc ggcagcatgc cctacctcaa ggcgaccatc aaggagacgc tgcgcctgca 240  
cccgccggcg ccgttctctc tcccgcacta ctccaccgcc gactccgaga tcgacggcta 300  
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<210> 43972  
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<223> Clone ID: LIB3076-009-Q1-K1-A9

<400> 43972

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cgaattgata atgttatgtg ttgatcaact acatgacatt ggctgacacc cacactgaat 180
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cttattggaa tacttcctat gtttactgta tagataatca 280
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<210> 43973  
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<223> Clone ID: LIB3076-009-Q1-K1-B10

<400> 43973

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acattcagca agccccgcag agttcaaaag atatccaaag caagtcccag ggtgcttcaa 180
caaggagctg taaaaaggtt cataagcaag gagtcgcact tggcagggtcg gtggacc 237
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<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-B11

<400> 43974

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gaacattcag caagccccgc atagttcaaa agatatccaa agcaagtccc aggggtgcttc 180
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ctttaaa 247

<210> 43975  
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<212> DNA  
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<223> Clone ID: LIB3076-009-Q1-K1-B5

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aaaatccaca gttgcactca tgcaggacac tttgaaacgc aataaacggt tctgtacttc 180  
tttaacttcc catatgttac aatttcaatt tgattctctc tgaccacttg aatatatctg 240  
aataaacctg atctccacca atttccttac ctgttgcccc atcacctatt ctgactgact 300  
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<210> 43976  
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<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-B7

<400> 43976

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atg 123

<210> 43977  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-B9

<400> 43977

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agaacattca gcaagccccg cagagttcaa aagatatcca aagcaagtcc caggggtgctt 180  
caacaaggag ctgtacaaag gttcataagc aaggagtcgc acttggcagg tcggtggacc 240  
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aggggtgaatt ggtatctggc agccaaaact ggcagatcgt ctataccgac gacgagggcg 360  
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<211> 248  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-C1

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acaaatcaat acgaatataa caaataggta gaacattccc tatagatcaa caaagcttac 180  
gtacatttcc cttccatgac atagcttttc tatattatta cttaaacata atttactatt 240  
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<211> 406  
<212> DNA  
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gaccgttgat taccacagct tcaagctcgt catcgctggc gatggtggaa ctggtaaaac 180  
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ggataccgca gggcaagaga atgtttggtg gcctcatgga tggatactat atccatggcc 360  
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<223> Clone ID: LIB3076-009-Q1-K1-D10

<400> 43980

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D2

<400> 43981

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aagctatact caatcatgct tggacttctg ccagaaacgc aaggggaaat ggtaccgaac 300  
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<212> DNA  
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<223> unsure at all n locations  
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<223> Clone ID: LIB3076-009-Q1-K1-D3

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 ggagtattta tcagtgttca gtcactcaca tttctttctt gcagaaatat tcaaagggtt 360  
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<223> Clone ID: LIB3076-009-Q1-K1-D4

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 taatcttgac caaattattt acgacaatca tcctaaactt agaccctaga ctctctatcc 240



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<210> 43985  
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<212> DNA  
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<223> Clone ID: LIB3076-009-Q1-K1-D5

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<211> 342  
<212> DNA  
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<223> Clone ID: LIB3076-009-Q1-K1-D6

<400> 43986

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 <213> Zea mays  
  
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<223> Clone ID: LIB3076-008-Q1-K1-G9

<400> 43989

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atgaatatga tgttcctgaa gttattgctc tgcccataac tgggtggtaac accaagtatt 180  
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<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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ctgcagaacc tcaaggacat ggcgagcgcc tntacttct tccagacgat gcaagccgag 360  
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<210> 43991

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-H10

<400> 43991

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aagactgcaa ggtggcgag caggcatgga ggatctgtac agcatccacc cggggatctc 180

gcgccacggg gcggcggcga ctagecgaggc gtccagggtc gccggtggac caggctcacc 240  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-008-Q1-K1-H12  
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 tggaatcccc ttgatgttaa ctatatctta actagttctg tcgataactc tgaccgtatg 180  
 tgggatcgtc gcaatcttgg ttcgagagga gctggttctc caattcacia atttcagggc 240  
 cataaagctg ctgctctttg tgttcagtgg tcacctgaca gaacatctga ttttggaagc 300  
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tctaattgttc catctgggct tttttttta

389

<210> 43994

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-H2

<400> 43994

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tccagacact ggcattgctt tcaattctgt ctgcccttat gatccgatct gtggagggaa 120

gcataccaat gccttgaagg agatgagtga gccattgaag gtgcgtatct tgagcctgtc 180

gtcaggtatt gaggcctcca ccatgcacac gagagagacc cattgggttcc tgttgactga 240

gtcgcccaca aacaccattc tcttgcttct cagatcttca agcagcttga tggcatcaaa 300

tctgctttgg aaaaaaggaa ccatattaaa aaggggaatt tgtcatgatg aatttggcct 360

ttctgttcat gtacttag 378

<210> 43995

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-H4

<400> 43995

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gctgctggcg ggcagccacc gcagtggggt gggatcccgc cgccgatggc gcagcagtac 180

ggcgcaccgt ctncgcagca gcctccggcg atgtggggcc agcctccgcc gcaggcgac 240

tacgggcagg caccaacccc tcagcagtac tacgccgcgc cncgggtgcc ggtgcaggcg 300

ccagccggcc ccgctgcggc ggacgaggtc aggacgctct ggatcgggac ctgcaatact 360

ggatggacga gaactacgtc ttcgggtgct ttcgaacact gggga 405

<210> 43996

<211> 402

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-008-Q1-K1-H5  
  
 <400> 43996  
  
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 gctgctggcg ggcagccacc gcagtggggt gggatcccgc cgccgatggc gcagcagtac 180  
 ggcgcaccgc ctccgcagca gccttcggcg atgtggggcc agcctccgcc gcaggcgcac 240  
 tacgggcagg caccaacccc tcagcagtac tacgccgcgc cgccggtgcc ggtgcaagcg 300  
 ccagcctgcc ccgctgcggc ggacgaggtc aggacgctct ggatcgggga cctgcaatac 360  
 tggatggacg agaactacgt ttttcggtgc ttttcgaaca ct 402

<210> 43997  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-008-Q1-K1-H6  
  
 <400> 43997  
  
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 ctgagaatgg tataggtctt gtcaagctaa tgggtcggca cagtggtttt attgcacatt 180  
 atgctactct ggctagcagg gacgtggatt gttgcttgat ccagaaatca ccattctatt 240  
 tgggaaggcga aggcggactt tttagataca tagaaaaacg tttgaaggac aatggtcata 300  
 tggttatcgt tgttgctgag ggtgctggac agaaacttat tgctgaaacc atgcagtcaa 360  
 ttgggaaaga tgcttcaggc aacg 384

<210> 43998  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-008-Q1-K1-H7  
  
 <400> 43998

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 gtttgcagag ggcattgtcta gcctgtttgt ggactcaggt caagaatctg caaaaaatga 120  
 aatgaaggct gcactagtgg aagcaaggca gctagtgaat cttcttatga gcaatagtcc 180  
 agagaatttc ctaaattccag tgatccgtga gaagagctat aacaagctag attatagaaa 240  
 ggttgcaatc atctcagaga agtttagaga tacctcagag agttatttct caacatttgg 300  
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<210> 43999

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-H8

<400> 43999

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 gagaaggcgg agaagacgac cgcagggaag aagcccaagg ccgagaagcg gctgcccgcg 180  
 tccaagtcct ccggcaagga gggcgggcgg aagaagggga agaagaaggc caagaagagc 240  
 gtggagacct acaagatcta catcttcaag gtgctgaagc aggtgcaccc cgacatcggc 300  
 atatcctcca aggccatgtc catcatgaac tccttcatca acgacatctt tgagaagctg 360  
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<210> 44000

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-H9

<400> 44000

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 ctcaaggcca agtgcctgat gaactgcgag gtggcgatca tcctggagca caagtacgag 180

cagatccagc agcacgcgtc gtcngagtc gacccgtcgt cg 222

<210> 44001  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A1

<400> 44001

cggacgcgtg gggcatgcag cagttggtac tgggtcatct tttcaaattc tctggaatga 60  
aatcagctg aaaagcaaca aggagtatgg ggatggggtg tacgatttct tagcgttggt 120  
caggaccgac caagaaaaga cagactacat gttcttggac gatgttgact atcttgtaga 180  
ggagaatgca gcagatgaca cgtgcttata tcccagacca gatgggaccc ttggaagcc 240  
tacctttgag gataattttg aagagcaaaa tattcagaaa ggcagctcat gggaaattgg 300  
cataacaacg aactcaaagt tggaacagaa tgctagtgtc gtg 343

<210> 44002  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A10

<400> 44002

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cgccaccggc actggagctg gagggaaggc gaagaaggga gcggccggtc gcaaggccgg 120  
cgggccgagg aagaagtcgg tgacgaggtc cgtgaaggcc gggctccagt tcccgtcgg 180  
ccgcatcggg cgctacctca agaagggccg ctacgcgcag cgcgtcggca gcggtgcccc 240  
cgtctacctc gcggccgtcc tggagtacct cgccgtgag gtcctggagc tcgccggcaa 300  
cgctgccaa gacaacaaga agacgcgcac cgtcccgcgc cacgtgctgc tggcgatccg 360  
caacgacgag gagctcg 377

<210> 44003  
<211> 373  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3076-009-Q1-K1-A2

<400> 44003

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aaaatcagct gaaaagcaac aaggagtatg gggatgggtt gtacgatttc ttagcgttgg 120  
tcaggaccga ccaagaaaag acagactaca tgttcttgga cgatgttgac tatctttag 180  
aggagaatgc agcagatgac acgtgcttat ctcccgagcc agatgggacc cttggtaagc 240  
ctacctttga ggataatddd gaagagcaaa atattcagaa aggcagctca tgggaaattg 300  
gcataacaac gaactcaagt tgggaacaga atgctagtgc tgtgaatgat tctggtgact 360  
ggggaggctg gag 373

<210> 44004

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-G4

<400> 44004

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ggctgctggc gggcagacac cgcagtgggg tgggatccct gcgtcgatgg cgcagcagta 180  
cggcgcaccg acttcgcagc agcctccggc gatgtggggc cagcctccag cgcattgcga 240  
cttacgagca ggcaccaacc cctc 264

<210> 44005

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D6

<400> 44005

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cggatgatgg cgatactgag gacttcaagt ttaagagacg aagcttctac agtcattggt 120  
gccgctcata ttctggcatt tgtgacaacc tacattctgt acctcaactt ctatgagctt 180

gacaaaggcc taaacatgat ggattgtact gcgataagca ttgctcagtg tctcctgtgg 240  
 tcaactgtggg ctgccatgag tgggcatcgt tcgcggctca agatcatatc tgtcgacgtc 300  
 agatgtgctg ttgcagtact tgtggatacc tacgacattc cacc 344

<210> 44006

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D8

<400> 44006

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 aattgatgtc aggaacttgc ggccatgacg gaaggataca gcggcagtga tctcaagaat 120  
 ctctgtgtga ctgctgctaa cctccctgtt agggagctcc tgatgataga aagagagagg 180  
 gaactgggaa cagctctagc ttgaggcttt aaccgaatat ccctgtactg atcctgcatt 240  
 acacgtctaa tgaacttga 259

<210> 44007

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E1

<400> 44007

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<210> 44008

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E12

<400> 44008

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ctacagttgt cggacgccga ctgacgctgt gagccaggtg aggcctacgt agacctgtcc 180  
gtctgatccg t 191

<210> 44009

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E2

<400> 44009

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agaccagaga actgggcact agttgaaaag gcaaaataca tctacattgc tggatttttc 120  
cttacagtgt cgctgtttc tatccagcta gtcgctgagc atgctgtagc aaataacaag 180  
gtgttcctga tgaacctctc tgctcccttc atttgcgagt tcttccgtga tgcccaagag 240  
aatgttctac cgtatgctga ctacatcttc ggcaacgaaa ctgatgcaaa gatctttggc 300  
aaagtcagat gatgggagac tgataatatt gaggagattg ctttgaagat ct 352

<210> 44010

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E4

<400> 44010

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catctccttg tccctggtag ggttggttca gttctatcac aagcttcgct ctgttttttt 120  
ttttatattc accttcattg agaagattgt agagtaccat aggctgaggg aatagctcgc 180  
ttgttgaatc ccagtgtttt agtccggttt agccttagcc atgaatgtaa aaatgttgta 240  
aaattgtcag cctgccttac aactccttc atcaaggcaa aacgagtgca atttcttcac 300  
gacaggagct ccacggctgg aaacctcaga cccgtgcctc gcttccttaa ctgcaaagag 360  
aagctccttg ccttgggatg gcgatctggc ac 392

<210> 44011

<211> 421

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-008-Q1-K1-E5  
 <400> 44011  
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 tgcactgttt catctgttga ttacgagaac cgataaagtc cgtgctcttc gtgaggcttt 120  
 ctaccgccag aacctttcaa atgtgaccaa tttgcttgcc acagtcttgg tcttctcat 180  
 agttatctat ttccaaggct tccgtgttgt gcttccagtg agatcaaaga atgctcgtgg 240  
 ccagcaaggc tcatatccaa ttaagctatt ctacacttca aacatgcca tcattctgca 300  
 ctctgcactg attaccaacc tctatttcat atcccagctt ctctacagga agtacagtgg 360  
 aaacttcctt gtaaccttc ttgggatgtg gaaggagtct gaatactctg gccattctgg 420  
 t 421

<210> 44012  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-008-Q1-K1-E6  
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 ctgtcgttgc actgtttcat ctgatgatta cgagaaccga ttaagtccgt gctcttcgag 120  
 aggctttcta tcgccagaac ctttcaaagt tgaccaattt gcttgccaca gtcttggtct 180  
 tcctcatagt tatctattgc caaggcttcc gagttgtgct tccattgaga tcaaagaatg 240  
 ctcttgcca gcaaggctca tatccaatta agctattcta cacttcatac atgcccata 300  
 tgtttcactc tgcactgact accaaccttt atttcatatc ccatcttctc tt 352

<210> 44013  
 <211> 258  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-008-Q1-K1-E8  
 <400> 44013

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 tctagttttt tttttatatt caccttatta gagaagattg tgatgtacta tatgctgagg 180  
 gaatagctcg ctagttgaat cccattgtta tatatcctgt tttagcactt aagccatgaa 240  
 ttgtaaaaat ggttgtaa 258

<210> 44014

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E9

<400> 44014

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 aactctgga aaacttgata catcagaaag gtaaaacaat gtatttggtg agctacaaat 120  
 aacagagcac tcatgtgaca cggacaaata taagatatac acattggatt atggatggag 180  
 cgcggaaga caagaat 197

<210> 44015

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-F1

<400> 44015

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 gggggtcgaa gatggcagtt cgacttggtc tgaacaacaa gctgagtggg cagatcaccg 180  
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 aacttcttta ccggagctta ctgcccagtg aaccatgctt tgcttattaa cttgtcagga 300  
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<210> 44016  
 <211> 205  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-008-Q1-K1-F12  
  
 <400> 44016  
  
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<210> 44017  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-008-Q1-K1-F3  
  
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 cttacagtgt cgcctgattc tatccagcta gtcgctgagc atgctgcage aaataacaag 180  
 gtgttctctga tgaacctctc tgctcccttc atttgtgagt tcttccgtga tgcccaagag 240  
 aagggctctc cgtatgctga ctacatcttc ggcaacgaaa ctgaggcaaa gatctttgcc 300  
 aaagtcatag gatgggagac tgagaatatt gaggagattg ctttgaagat ctctcaactt 360  
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<210> 44018  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-008-Q1-K1-F6  
  
 <400> 44018  
  
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tgcggaagcc ccagacctat atcatcaaac gtggcaaaac atcacaattt atcaaattac 180  
 agtatagcac tttccctaaa aaacaaattg tgttgcaact gttttggatt ctggtgcata 240  
 aactcaate atttgtcaca tcatcatcac atcaaatttg ggtcgaaaag actcctggct 300  
 gcagtggaag actggttagg tttggctcgc gacttcattc ctttctcaac a 351

<210> 44019

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-F7

<400> 44019

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 cgtctctgtt tctctcatcc ccttcatcac tctgctggtc tccctcttcc acctctggtc 180  
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 gtgggaaaga cctgcatgct catctgttac accagcaaca agttccccac tgattacata 300  
 cccactgtct tcgataactt cagtgcaaac gtggtagtcg acggtaccac tgtgaatttg 360  
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<210> 44020

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-G1

<400> 44020

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 gggggtcgaa gatggcagtt cgacttggtc tgaacaacaa gctgagtggg cagatcaccg 180  
 tcaggacaag cacctcagag caggtccaga ttgcacttct gggctctcgt cgggttgcag 240  
 cctccattta ccggagtttc cggcccagtg aaccatcctt tgcttattag cttgtcagga 300  
 gtctcagttt aattatttca tgatcacatc gtttctctta gcaattttgc ttttcatatc 360

aaccatgttt cctgctgttt cagttcactc ctttgaatt ggcagatcgg ttcctatcat 420  
aattttgggt gaaaaagggt gccagaatta 450

<210> 44021  
<211> 236  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-G10

<400> 44021

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gcctatcatg aatattatgt tctgaagtt attgctctgc ccataactgg tggtaacacc 180  
aattatttgg aatggatcaa gaacatcacc ctgaacaaga gatctatttt tttttt 236

<210> 44022  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D5

<400> 44022

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ctcctattct ggcatttgtg acaaccaca ttctgtacct caacttctat gagcttgaca 180  
aaggcctaaa catgaagggt tgtactgtga taagcattgc tcagtgtctc ctgtgggcac 240  
tgtgggctgt catgagtggg catcgttcgc ggctcaagat catatctgtc gccgtcggag 300  
gtgcggttgc agtacttgtg gaagcctacg acattccacc gcgatgggga tacgcaaag 360  
gccgtgctat ctgcctcgct tgggctatcc ccctgtcgta cctttggtgg aac 413

<210> 44023  
<211> 340  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations



<223> Clone ID: LIB3076-008-Q1-K1-G11

<400> 44023

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attcaaata tgactaatgt accacctnc tctcatcaca ngatggccaa gtccttagct 180  
aattgaaata gataacagaa acaagaaagg agctcagttc gttatagagg cactggagat 240  
gaggtttgta actatcattt tccaattcaa ctgtgctgta ctaagaaagg tccgtccttg 300  
atgtttcaac ccactgattt taagacatct ttaacctctt 340

<210> 44024

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-G12

<400> 44024

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gctgctgctg acgaggctgt cggggcgcca gggcgagtga ggctggccaa caagatccgg 180  
aagcgccgcg cgggtgctgc gtcgggggggt tcggaccgag cgccggggag gcggtacgg 240  
tccaggaggc ccgcggtgct gctgccgagg cgccggacca gcgcgggcgg ggacatgtcg 300  
gaatcgcccc gtggccggca ttgccgagg ggcggtaccc gctcgccga cgggacatgg 360  
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<210> 44025

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-G2

<400> 44025

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tgaagacact ggcgtgcttt gcaatgctcg ctgactttat gatccagtct tccatgggaa 120

ggataccaat gacttgaatg agactagtga tgcacagcag gttcagatct cgaatcagcg 180  
gcaagacatg gacgt 195

<210> 44026  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B11

<400> 44026

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ttacataaaa ataagttccc tagctactgg ttctggttta ttcagggtttt attacttcat 120  
tagggagctg attttttttt ttgaatcgaa tagccctgct attcaggaga ataggggttgc 180  
taccgtgcag tgcctatcgg gtactggttc ttttaagagtc ggaggtgaat ttcttgcaag 240  
gcactatcac gagcgcacta tctacattcc acaaccaacc tggggaaatc acccaaaagt 300  
cttcacccta tctggcttga acgttaggag ctaccgctat tatgatcctg caacatgc 358

<210> 44027  
<211> 248  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B12

<400> 44027

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ggagctctag gacgacgcc tgaccccaac gccactctac ggccactcaa tgccggctgg 120  
gtcttcccg cctggttttgc attttggttt cttaatctgc aatcatggtt tttcataata 180  
ctgcaagggtg ggcctgataa ataattaaaa ggtagttaat cttagatatt gtttgaacgt 240  
atgggatg 248

<210> 44028  
<211> 351  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B2

<400> 44028

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aatgttcgat ttggcgggaa tggagttgcg caaggtggcc ttccagaaga gttagagcca 120  
aacaatacga ttgaagcggg ttcttgagct gatgcatggg tagtggcatc aaccacacaa 180  
gattggggaa aaatgggtga gagatggata agttctaccc ccttgctgga gggaatggta 240  
agtagctcaa ctcaagaatt tccttctgtg acacagattc tcaattacag gggtttctat 300  
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<210> 44029

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B3

<400> 44029

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acatttcctt tgtattcccc ttccaattt gcagtagttt gtaggtagac cgcaagggtg 120  
ttttttcttg cagcaatggc ggccaagggt tgacaaggca tgacgtcctg attaagcccc 180  
ctcgcggcag ccacaagatt tcttgcagcg tgggacagga gctgcggctg cggaggaagt 240  
gagcaaaagc atggatcttt ccggcacgca gggcgagctg ccgatggcaa caatgcacgc 300  
cggcgggtcg ccgtacctgg ggctgcacca cgggcaccca cagcagcaca 350

<210> 44030

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B4

<400> 44030

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cctcta 66

<210> 44031

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B5

<400> 44031

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gtcaacggaa aacagttgat gcatggaatc actgactgac agccagacct atcatgggga 120

gcacatgggtg gctgttgata atgatctgcc aaattctgac tcacgcgcat tggctctgac 180

tgcttagctg gagcagttca acaatggcaa agcatgttca agaaatattg tgaacaacac 240

tgatcagatt gacataatgg atgatttact tgcgatggca atgttagctg cattggctga 300

atcagacggc acaagctata actttgaaat ggaaacagat tctgac 346

<210> 44032

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B6

<400> 44032

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ggcggaccgg agccactgga gcaagatctc ccagggcggg ctccagcgta tgcaggagaa 120

gtacacctgg aagctctact cggagaggct gatgacctc accggcgtgt acgggttctg 180

gaagtacgtg tccaacctgg agaggcgca gaccggcgg tacctggaga tgctgtacgc 240

gtcaagtac cgcaccatgg cgagcacgt gccgctggcc gtggaggagg agccctccag 300

caagtgatgc gcgacggcgg ccacagacct gatcgatcga tgagcgagag ggagcactcg 360

gagtgtcgtg tcttttccct tgccaattct ttctt 395

<210> 44033

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B7

<400> 44033

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ccaagttctc ccaggaaccc cagccgattg attgggagta ctacagaaaa ggaattggat 120  
caaaagtggg ggatatgtac aaagaggctt ttgaaagcat cgagatcccg aagtacgtcg 180  
acacagttac tccccagtac aagccaaagt ttgatgctgt gattgctgaa ttaaaggagg 240  
ctgagaaaga gcatcagaag gagtcagaaa ggatagagaa ggaacttgct gaaatggagg 300  
aaatgaggaa aaagatcagt acaatgacag cagatgatta ctttgagaag taccctgaac 360  
tcaagaagaa gtttgatgat gaaatccgta acgataactg gggatattga agagattgga 420  
gagaactctt atgat 435

<210> 44034

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-B9

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cggccaaaac cgctcgccgg tgtgtccct tcccccgcg ccgctggcgc cgccggagcg 120  
agggggactg cccaaacct agtgggagtt ggagactagg aggaagggcg cgagatccgg 180  
cggcggccac ccgatgggg gacttcaacg tcgctgtgt gatcgtggcg gcggtggtca 240  
gcgtgctggt gctgctcgtc agcgtctacc tgctcgtcaa ctaccagcac cccgacgacg 300  
tcaaccaggc ctacttcnc aagctcgtcg tcgtgctc 338

<210> 44035

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-C11

<400> 44035

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tagagatgaa tctgtgttat ttgatgtgct aggtataacc attgaacctc gtttgccctc 120  
aagttgaata aaaacagggt tgctcgaggt attttgtagt tttgtccaga aatgcaatgt 180

gttttcttgc ccaaaggctg tatgtttacg gcttacctag tggtgcttgt atctagcgaa 240  
atgataatat gatatgacag ccttcgaata tcttctgtgc taatgatgga attgcaaagg 300  
atctaccatt tatttttcttc ctcagatggt gcttatgtcc tacaaagccc atgaaaaacc 360  
attgagctaa tcttggagat tntgggtcaa tggacagatt tgagaagtga atgggtga 418

<210> 44036

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C12

<400> 44036

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gttcgtttgt ggggtgatcc gccccctgt cggattcttt cacctccgag ctctgggaca 120  
ggggagatct gtggtgtcgc agcctcgctt ttcttgtacg cgcgcggtgtg ggcactcagc 180  
agcaccttca gaaatggact tttttacaga gtatggcgag gggagcaggt acaagataga 240  
agaggtcata gggaaaggca gttacggtgt ggtttgctct gccttggaca ctcatactgg 300  
tgaaaagggt cgccataaga ggataaatga catctttgaa catgtgtctg a 351

<210> 44037

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C2

<400> 44037

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aatttaccac aggtggaaca aataggtaat cttcaagatg aaagacaaga tcgctacaca 120  
atgcacacaa tagctcaggc tcatgtgtgt gttgcattcc acagtctcat gcgcatgggt 180  
acttacagaa gttcatgaaa agacacg 207

<210> 44038

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C3

<400> 44038

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tgctcctccg gctggtgtcc gtcaaggccc ggcgggtcaa ccagaggtgg aacgacgtgt 120  
tcgacgagct catccaggaa cacgtgcaga gcaggccctt cggcgagagc gaggagagcg 180  
aggcggactt catacacgtt ctgctctcca tacagcaaga gtacggcctc actacggaca 240  
atctcaaggc catcttggtg gacatgttcg aggcaggtat agagacatct tacctgacgc 300  
tagagtacgg catggccgag ctcatcaaca acaggcacgt catggagaag ctacagacgg 360  
aggtgaggac gacgatgcgc tcgccggacg gcaaga 396

<210> 44039

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C4

<400> 44039

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agcagaaagt tgatgaatat gttgatttca aggaacttgc ggacatgacg gacggataca 120  
gcggcagtga tctcatgaat ctctgggaga ctgctgctta ccgccatata aaggagctcc 180  
tgaagataga aagagagagg gtactggtaa cagctctgtc ttgctgctct aaccgaatat 240  
ccctgtactg atcctgcaat acacgtcgaa tgaactt 277

<210> 44040

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C5

<400> 44040

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gatactgcag acgtcaagta taagagacga aacttctaga gtcagggttg ccgatagaat 120  
actggcaaga gtgacaactt agattatgga cctaaacttc aaggagcttg acaaaggc 178

<210> 44041  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-008-Q1-K1-C7  
  
 <400> 44041  
  
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 acagcctagc ggcgaggctg tcgccgccgg cgctcgtacc caagagaatt tacaaaagca 180  
 atggctacct gctagtgact tgcaatggtg gcctcaatca aatgcgagcc gggatatgtg 240  
 atatggtgac tatagcgcgc catctaaatc taacgcttgt ggtccctgaa ctggataaaa 300  
 ggtctttttg ggctgacca agtgattttg gagatatttt cgacgtggac cacttcatta 360  
 attccctgag agatgagctg atgataggta aagagcttcc tttgaaa 407

<210> 44042  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-008-Q1-K1-C8  
  
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 gatgctgctg ctcagaaata tgctgcacat atacttcagg agaagtacga gggagctatg 180  
 gcttcacttg ctcaaattga gaacagagca gttatggcag aaactatggt agaggcaacc 240  
 attcagtacc aatctagtca gcagaaagca cagcttccat cgccctctcc ttctccaagg 300  
 accccaactc gagatgcatc accaggccaa gggaaccaag attca 345

<210> 44043  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-008-Q1-K1-A6



<400> 44043

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gcatgtggtc ggtgcagata gtgatctgcc aaattctgac tcgtgcccat aggctttgat 180

tgctgagctt gagaagataa acaatggcac atgatataca agaaatattg cgcactacca 240

tgttgatatt gtcataaggg atgattctgt taacatcgga atgaaagctg gagaggctga 300

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gacgcgggtc gtg 373

<210> 44044

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D12

<400> 44044

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tcgtgagctg cctctccagt gtgctctgta gcccgcgag atcagtgatg gccttcgcgg 120

cgatgacggg agcggcggtt cttgcgaccg ggccgggcaa ccgtgtgact cggttcgcca 180

agtcgacggc ggctcggtg acgcccgtga ggccgggcaa gacgcacgcg cttgtcgccc 240

tggacaacgc catggagcgg cacacggtgc acgtggtggt ctacctccgc gccgcgccgg 300

gcctggacag ggagcagctc aaggagtcgc 330

<210> 44045

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D4

<400> 44045

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gcggcagtga tctcaagaat ctctgtgtga ctgctgctta ccgccctgtt agggagctcc 180

tgaagataga aagagagagg gaactggtaa cagctctgtc ttgttgctct aaccgaatat 240  
 ccctgtactg atcctgcaat acacgtcgaa tgaacttgat ggggtgtctca ggagcgaagg 300  
 gaaaaggagt caaaagacaa ggcggcggcg gcgagagaatt cagaagcccc ggagagtgag 360  
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<210> 44046  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 44046

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 tccttctcgc cgccctgccc cgagcgcacc gtttagaggc cgccaggctc cggcaccccc 180  
 gcccgcccgg gctcgcctgg ggtcgggatg ccttgcctgc cgccgtcgtc gctcggagtc 240  
 ggcccacggc tgcgctcctt cctccgcgac tacgacgcgc tccagtcctt cgccctcgta 300  
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 gttcttgagg tcaacctggt gattggtcta ttcgct 396

<210> 44047  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-007-Q1-K1-G2  
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 tcgcaacccg cagaccagca cgcgaccctc atgttccggg taggggctaa agcagaggca 180  
 ccactctctg gagagattaa aaattaccgc tttagatctg atgtgccttg cccaccttct 240  
 catactgccg taggagggtcc agcttcactc cttcctaagc gcaaaccctt gactgaagaa 300  
 gagattgagg ctattatgct ggggggatcc atctgatatc acctcatatg aattggaaat 360

tctaggaaca tcaataagat tgtatgcctg agcttattgc ctttgacctc tgaaagagtg 420  
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<210> 44048  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-007-Q1-K1-G3

<400> 44048

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 tttcaattca ctttccaata tttccaattc tcaccactct aaacccccct tctcgtgcaa 180  
 atccaagggg tgaacacaca acaggaccgt ccaacgtacc ctcacaagca caaggcgcac 240  
 atcgaccaag ccaaaccac aaccaccaca ccc 273

<210> 44049  
 <211> 117  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-G5

<400> 44049

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 tatttttggt tgtttttata tgaatcaggg ctggtctata atccacttca ccttccc 117

<210> 44050  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-G7

<400> 44050

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accagtacga gaccacgtcg cttgtgcaga tgcaggggggt gaacaccaag gaggacgtcg 180  
cgtggtacgc tggcaagcgc atggcgtaca tctacaaggc caagaccaag agcagtgaga 240  
cccgctacag gtgcatctgg ggtaagggtca cccgttcgca cggcaacttc ggcgttgtcc 300  
gcgccaaggt caagtcgaac ctaccggctg agtctatggg gcgcaaggtc aaaatgttca 360  
tgtaccctag cagcatt 377

<210> 44051  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H1

<400> 44051

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tcgaactcat ccaatcacag gaatgtgcc aagatctgat tgaaaaacag cggcgtagtt 180  
tcacactcta gagcctggaa gccgaaaacc aattcccatc ctcaggacag ctcagacggc 240  
aagattgctg ttgacgggca agtggattcc catgggtgta ggcttgagat gaatacgtcc 300  
aaagatacaa ttacccatct agtgaccagt agtgaaccga cgaataggag tgatgacaaa 360  
gaggtctcac acagcataca tgaaaacctg gcacgggaag atggtaacca gaaaggtgag 420  
actgaac 427

<210> 44052  
<211> 96  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H10

<400> 44052

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<210> 44053  
<211> 316  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H11

<400> 44053

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gggaagggga aggccggcaa ggacccaac aagcctaaga gggctcccat cgctttcttc 120

gtgttcatgg aggaatttct caaggagttc aaggagaaga accctaagaa caagtctgtc 180

gctgctgtgg gaaaagctgc ttgcgacagg tggaaatccc tgatcgagtc tgacaaggct 240

ccctatgtat ccaaagctaa caagctcaag ctagagtaca acaagggcat cgcagcctac 300

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<210> 44054

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H12

<400> 44054

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cgaggagaaa tttgtgggcc tcgttaaaag cgagccagag aagtttgaaa agttcgatgg 180

gaaatttgaa gaaaaggaaa ttttgcggtt tgtggagctc aacaagtttc ctctaattac 240

tgtattcact gagtcaatt ctggtaaagt atattcaagc cctattaagc tacaggctct 300

cacctttgca gaggcttatg attttgaaga tctggaatct atggttgaag aaatagccag 360

agca 364

<210> 44055

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H2

<400> 44055

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ctaactcatc caatcacagg aatgtgccaa tgatcttatt tgaaaaacat ctacgaattt 180  
ttcacactct ataaccttga agccttaaac caatttccat cctcatgaca tctcatactt 240  
caatattgct tttgtctttc atatttattc ccattctttg tatcttttaa ttaatacctc 300  
caaattattct attacctcat ctatttacca ttattt 336

<210> 44056  
<211> 271  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H3

<400> 44056

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gaaatcactt gttgtgtcaa agaattgtaa ctctcccgat catcaattcc tacctctccc 120  
taaaagagct agaactatcc ttgtcactag aattcatgct agcaatttgt ggtaccagtg 180  
tagatgatgg tcaaaccaat ggatagagta cacgtgtaat atcacaactg caattcaata 240  
tccctgacga ggaccacaat ttttgatgcg a 271

<210> 44057  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H5

<400> 44057

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tcacaggatg gtgccacgat ctgatgtgaa aaacatcggc gtaacttcac actctagagc 120  
ctggaaacct aaaaccaatt cccatcctca tgacagctca gacagccaga atgctgttga 180  
cgggcaacgt ggattcccat ggtggtaggc tttgagatga atacttccaa agatacaatt 240  
acccatctaa tgacc 255

<210> 44058  
<211> 438  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-007-Q1-K1-H7

<400> 44058

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gagtagctct gaggatactg aaaatatagt ctttcatgta ctaactgatg ctcaaaattt 120

ttatgccatg aagcactggt ttgcaagaaa ctctacagg gaatcagctg tgaatgtcat 180

aaattatgaa caaattattt tcgagaattt ccctgagttt ggaaccagc agttatattt 240

gcctgaggaa tttcgtgttt tcatcagtag ccttgagcgg cctactgaga agagtagaat 300

ggagtattta tcagtgttca gtcactcaca tttctttctt gcagaaatat tcaaagattt 360

aaagaaagta attgtgttgg atgatgattt ggtcgttcaa catgatctct ctntcttggg 420

gaatcttgat atgggaga 438

<210> 44059

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-A1

<400> 44059

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aatttaccac aggtggaaca tataggtact cttggagatg taagacaaga tcgctacaca 120

atgcacacaa tagctcaggc tcatgtgtgt gttgcatccc acagtctcat gcagcatggt 180

tacttacaga tattcatgaa tagacacgtg cacttgatgc ttctgggatc ttcttactgc 240

ctagaggacc gagctctact ttgtacagac tgcgatgatg ctatacacac agtgaatttc 300

tctggatcag tacatcagag at 322

<210> 44060

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-A10

<400> 44060

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caccaccgcc accaagcccg ggccgaataa ctctgccggg caaccgccgc ccttcgccgg 120

caaagaacgc ccaccagatc caccgccggc tgctatggag tccgcggtga acccgaaggc 180

gtaccgcgtg gctgatgcgc agctgacgat gggatcctc gatatcatcc agcaggccgn 240

caactacaag cagctcaaga aaggagcgaa cgaagcgacg aanaccctga atagggggat 300

atcggagttc gttgtgatgg cggcggacac ggagcctctc gagatcct 348

<210> 44061

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-A11

<400> 44061

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agtgaacacg aacaaagcag acacgcattt tgatcctctg ctgcctacag tttgaaacac 120

atgagacgag acaggacgac gacccatgtg aacttcacgc gtgcagtggc tcacatcaca 180

tgcatgagag tgataatata ctggagagca aggctactga gcgaagcaaa cggctaata 240

acaacaacct aacgacaatg gcggttggac acacgacggc gacggcgaca tgaaagaaa 300

cacaacacag gccgcgagat ggcgcgacga ccccatgttc gcacgcacac acacgtgcgg 360

gttacagtag atgattctt 379

<210> 44062

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-A4

<400> 44062

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tgcttcaaaa tagttctccg tgtgtgggtt cttgcggatt gcgctgtcag gtccacataa 120

tattggggac ggtgcagagt gtcctccgtt ttttctctc tcgcacctaa agttttcggg 180



agcagttagt tagagtatat tcgattcccc ctgatatagt ttgtttatit cacactacga 240  
 agtctatgca ctcgagagaa aaatcactgg tagcgacggc atcaattctt gtgacgttta 300  
 gtggctagaa caccctcact agcgctcatt catgtttacc cgaccttgtc cttttccctt 360  
 ccagcttccg tgtgctggta tcaatttggt gtaatttggg ga 402

<210> 44063

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-G10

<400> 44063

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 tcccatgtga cctaggccat gccacatgta gctcatgtcc taagctgccc ataaattcca 120  
 ttatgtttct agtcgtccac ctactagtcg gacgactaat cgtcatcagt caatgattaa 180  
 tcagatggcc ataaactaat caacttattg agttttatct cccctgcgaa catccccctg 240  
 tctaactggg taggtgatgt agtagcaaac tctcatgttc tgagttcaat tcctagtggg 300  
 agctaatttt cata 314

<210> 44064

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-A5

<400> 44064

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 gtcagcacia aacagttgct gcatggaatc actgactgac agccagtccg atcatgggga 120  
 gcacatgggt gctgttgata atgatctgca aaattctgac tcatgggcat tggctttgat 180  
 tgctgagctt gatcagttca agaattggca agatgggttca agaaatattg tgaacaatcc 240  
 tgttgagatt gacataatgg atgatttcct tgagatggaa aggttagctg cattgcctga 300  
 atcagacggc acaagctcta actttgaaat ggaaacggat tctgacaagg ccatcgcaag 360  
 aagcggctcc ttgaaaatca aaagtgaaga attgcaaac aaggtcgcca atttgc 416

<210> 44065  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-C4  
  
 <400> 44065  
  
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 gagctgaatg ccaaagatta cgtggccttg ttcgaaagaa gttacctggt cctgcagcac 120  
 tagctcaaat gaaaatggag gtggagagct tgggtagaga gtatggagac cacagagtac 180  
 gacgatctcc tgcaaagaat tctagtttcc atcggcccat gtctcctatg tctcctgttc 240  
 ctgattacgc aatcgagaac atacagtaca tgcagagaga gaatgagttt ctgactgctc 300  
 cgttattaac aatggaagaa gaaaccaaga tgcttaaaga ggcattgacc aagcgaaaca 360  
 gtgagctgca atc 373

<210> 44066  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-C6  
  
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 ggctgaatgc caaggattac gggggccttg tcgaaagaag ttaccttgct ctgcagcact 120  
 agctcaaattg aaaatggagg ttgagagctt gggtagagaa gatggagacc acacaatacg 180  
 acgatctcct gcaaagaatt ctaatttcca tcggcccatg gctcctatgt ctctgttcc 240  
 tgattacgca atcgagaaca tacagtacat gcatagagag aatgagtttc tgactgctcc 300  
 gttattaaca atggaagaag aaac 324

<210> 44067  
 <211> 254  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-C8

<400> 44067

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aggctgactt ccaaagacta cggggccttt acaaagacc gtacctgaac ctgcagcact 120

aactgaaagg atcatgttgc tggacatatt ggttcaagag tattgacacc acaaagctct 180

actaacacct gcaaagaatt ctactttaca tccacccata agttctataa catctgtaac 240

tgattacgca attg 254

<210> 44068

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D2

<400> 44068

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ctgagcttcc agaaccagca ctggggataa actttgcccg tgatggaatg gtcgaaaaag 120

actggttgtc tctagttgca gttcatagtg atgcatggct cctgtctgtt gcattctatt 180

ttggagctcg ttttggattt gacaaagatg ccaggagaag gctcttcacc atgattaaca 240

acctgcccac tgtttatgaa attgtgacgg ggggttgctaa aaagcaatcg aaagccccc 300

acggcagcag caaaagcagc aaa 323

<210> 44069

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D3

<400> 44069

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caacggatca gacaggacat ggagtctcag atagctgatg tgatgagaaa gcaacttaaa 120

tccaaggaaa gtagtggtta cacagataac tctgtgaaac tgcaacatgc agaatcgaaa 180

ttatcagatc ttcgaactac actggcagcg ttaggaagag aagcaactgc agctatggag 240

gctgtagagg ctgagcaaca gcaagttacg tatgaacgct tccttgcaat ggttgatgct 300

gagaggacat atcatcaaaa tgctgctgat attctgaata aactccatga tgagatgctc 360  
tatgcaaagc atcataatga gtcagcaaac cacta 395

<210> 44070

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D4

<400> 44070

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agcggaatgc caaagattac gtggggttgt tcgaaagaag ttacctgggc ctgcagcact 120  
agctcaaatg aaaatggatg tggagagctt gtgtattaga gtatggagac c 171

<210> 44071

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D5

<400> 44071

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tgtgaacgga tcagacggga catggagtct cagatagctg atgtgatgag aaagcaactt 120  
aatccaagg aaagtagtgg taacacagat aactctgtga aactgcaaca tgcagaatcg 180  
aaattatcag atcttcgaac tacactggca gcgttaggaa gagaagcaac tgcagctatt 240  
gatgctgtaa aggcttagca acagcaagtt acgtatgaac gtcttct 287

<210> 44072

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D6

<400> 44072

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gaaaaaccta ctgagcttcc agaaccagga gtggggataa actctgcccc tgatggaatg 120

gtcaaaaaag actggttgtc tgatagctgc agttcatagt gatgcatagc tcctgtactg 180  
tg 182

<210> 44073  
<211> 227  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D7

<400> 44073

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caacttatca aacgggacag ggagtctcaa atagctgatg tgatgagaaa gcaacttaaa 120  
tccaaggaaa gtagtggttaa cacatataac tctgtgaaac tgcaacatgc aaaatccaaa 180  
ttatcagatc ttcgaactac actggcatcg ttttgaaaag aatcaac 227

<210> 44074  
<211> 320  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-E5

<400> 44074

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gtccgttctc agcagcgcgc tgggcgggett actgcctcga atcggatgaa ccccggtgccg 120  
ggatacgaaa acccaccaaa ccctaaccct agctgcagtg ccactaccgt ccgcttgccc 180  
gggctacgga gaggaagccg acccaagcaa cgatgccgaa cgggtcagcg acgcaatttg 240  
ggaacacgca gacgccgtcc aaggtgctgc acctgcggaa catgccgtgg gaatgcaccg 300  
aggaggagct agtctagctc 320

<210> 44075  
<211> 298  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-E7

<400> 44075

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acaatatgcc acaagagcag tggggcttta ataacgagca ctggggattc ctgggtcaaa 120  
atcgttagac ggaccgccgc tatacgaaaa cgcacctaaag aattactcta gctgcagctc 180  
cactaccgcc aattcagccc ggtctcctga caggcagcag actcgtgcta cgatgcctgc 240  
cgatttaacg gcgctgtttc gatacacgca gacgccgtcc aatgtgctgg acctgctg 298

<210> 44076  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F12

<400> 44076

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caagtgcact agtccatggc acatgtaact catgtcctaa gctgcccata aattccatta 120  
tgtttctagt cgtccacctg ctattctgac tactaatcta catcagtcaa tgattaatat 180  
tatggccata aactaatcaa cttattgagt tataatctccc ctgcgaacag cccctgatct 240  
aactagttag gtgatttagt atcaaactct catgttctta gttcaattt 289

<210> 44077  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F2

<400> 44077

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aaagcataag gtgttgctgg actctatgaa agatatggaa atcgaacctg atgtaacctg 120  
ttacacagta ttgattgatg gacggtgcaa agcagaatat ctagaggaag caccaggatt 180  
gtttgatgag atgttagcaa aaggacttat ccctgatgtt cacacataca cagctcttat 240  
aaatggatac tgtagccagg gagaaatagc taaggctgaa gatcttttcc aagaaatgat 300  
agctaaagga atgaagccag atgtactgag cttttcagta ttacataaga gaaccttgag 360  
acatgaaaag gtcattaat atttatgtgt cctaattggt atggtgatga atgtcagttt 420

gactg

425

<210> 44078

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F3

<400> 44078

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tacccgcagc aaggtggcag gggccgtaag aacgggttca tcgtcatcaa gaaccgcccc 120

tgcaagggtt tggaggtttc tacctcaaag actggtaagc atggccatgc caaatgccac 180

tttgttgcca tagacatatt caacgggaaa aagctcgaag atattgttcc ttcggcacac 240

aactgtcata ttccgcatgt gaaccgtact gagctccagc tgattgatat atcacacgat 300

ggatttgtga gccttcttac ttcagatggc aacacttaag atgatcttag actcccaact 360

gat 363

<210> 44079

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F5

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catacgtaac gtcgctatag ctggaggctc ggaaaaaaag taattcttcc tcaaagggca 120

gtaaacccca ttaaaaggtc actgcgaatc cttcttttgg ggtgttgagt tgggggac 178

<210> 44080

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F6

<400> 44080

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aggacctttt ttcttaagag gaaggttaat gtgggactga ggtcggtgaa agatatggaa 120  
 atcgaacctt atgtaacctg ttacacaata ttgattgatt gacttgtcaa agcataatat 180  
 ctaaaagaag caccaatgat ttttttatga aattttaaca aaaggactta tccctgatgt 240  
 tcacacatac acatctttta tataatgata 270

<210> 44081

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C3

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 cgttacctgt gcctgcatca ctagctcaaa ttaaaatgga cgcagatagc ttggctagag 180  
 agtatggata ccacatagta ctactatctc ctgcaaacia ttctagtttc catcgcccc 240  
 tgtctcctat gtatactgtt tctgattact caatcgagaa catacaatac atgcatagag 300  
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<210> 44082

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F7

<400> 44082

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 cgactccatc atggaacgta accctaggtg gaaccagctg ccggttccaa aggaggcgct 180  
 gtacccatgg gacgacaggt ccacctacat ccgcaagcct acgtacctgg agggcatgtc 240  
 catgacgccg tc 252

<210> 44083

<211> 390

<212> DNA



<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F8

<400> 44083

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ccctgtgata atgttccccg ggcgggggct caaagcccca tctccatccg cgccagcggc 120

gtctcaacct gcagaccagc acgcgacct catgttccgg ttaggggcta aagcagaggc 180

accatcttct ggagagatta aaaattaccg ctttagatct gatgtgcctt gcccaccttc 240

ttatactgcc gtatgaggtc cagcttcaact cttttctaag cgcaaaccct tgactgatga 300

tatagattga tgctattatg ctgggggggat ccaccttata tcaccttata ttaattggaa 360

attcttggaa catcaataag attgtatgcc 390

<210> 44084

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F9

<400> 44084

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ctacctggga tgcgtgcaa tcttttctcc gctcctactc ggcaggagct gaactgcttt 120

tgtgagggaa ggctgaccag ttttgtgggt tttccccctt cactgttggt ttcagtaagg 180

taggatggaa aacatattaa acaaaatcga tctgttgtat caggatgtta catatataat 240

aataaaaagg ctaataaagt tccatgattt gagatgactc atcaaagaaa ttaatt 296

<210> 44085

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-G1

<400> 44085

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caagccaaga tatctatgag gttggggagt ccagcgtgca tacttacctg ttcaagaaag 120

tgtactactt catcatggaa cgtaacccta tgtggaacca tcttccggtt ccaaaggatg 180  
ctctttaccc atgggacgac atgtccacct acatccccat gcctacttac c 231

<210> 44086  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-H9

<400> 44086

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aggcggcaac cgcgaggcgc aatggcgggc gggcgagagc tgggtggtgag ttctggcgag 120  
atgttgatag acttcgtgcc caccgtggcg ggggtctcgc tggcggaggc gccggccttc 180  
ctcaaggcgc ccgggggcgc gcccgccaac gtcgccatcg cggctctcgc cctcggcggc 240  
ggggccgcct ttgtcgcaa gctcggcgac gacgagttcg gccgcatgct cgccgccatc 300  
ctccgcgaca acggcgctga c 321

<210> 44087  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-A1

<400> 44087

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cggcgccgct gatcgacgcg gctgagctgg ggtcctggtc gctgtaccgc gccgtgatcg 180  
ccgagttcat cgccacgctg ttgttcctgt acatcacggt ggccaccgtg atcgggtaca 240  
agcaccagac ggacgcgtct gcgtcgggtg ccgacacggc gtgcggcggc gtgggg 296

<210> 44088  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-A2

<400> 44088

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ttatgccatg aagcactggt ttgcaagaaa ctcctacagg gaatcagctg tgaatgtcat 180

aaattatgaa caaattatct tcgagaatct ccctgagttt ggaaccagc agttatatct 240

gcctgaggaa tttcctgttt tcatcagtag ccttgaacgg cctactgaga agagtataat 300

ggagtattta tcagtgttca gtcactcaca tttctttctt gcagaaatat tcaaagattt 360

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gaatcttgat atgggag 437

<210> 44089

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-A3

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cggctctcct gcccatcgtg gacctctccc tcggccgcca cgaggcgcg cgcgccatcc 180

tcgaggcccg caaggagatc ggcttcttcc aggtggtgaa ccacggcgtc tccttgagg 240

cgatgcagga catggagacg gtgtgccagg agttcttccg gctgccggcg gaggacaagg 300

ccgggctgta ctcgaggac acggggaggg cgaccggat ctactccagc accatgttcg 360

acacgggccc cgagaagtac tggcgcgact 390

<210> 44090

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-A5

<400> 44090

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gggtcccgga gtgcttgatc ttcggggccg acaagctccc gcaggccaag gccacctcag 120  
cgactgactc cctgcccata gtggacctct cctcgggccg cgacgaggtg cggcgcgcca 180  
tcctcgaggc cggcaaggag atcggcttct tccaggtggt gaaccacggc gtctccctgg 240  
aagcgattca ggacatggag actgtgtgcc aagagttct 279

<210> 44091

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-A6

<400> 44091

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gcagccgcag accttcccgg cgcttcgacc gcctcggccg ccgcgcgtcc ccggcggttcg 120  
gcggcctccc cggcggcagc attcctggca gcagcattcc cgggttcagc atgccctgca 180  
gcggcagcag ccttcccggg ttcagcttgc ccggcagcgg cagcatgccc ctcttcgggt 240  
gcagctcccc gggctatagc ggcttcggcg gcatgcccg gtccccacc ggcgggttcg 300  
tccccgagca cgccaacaag ccctgaac 328

<210> 44092

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-A7

<400> 44092

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gccacgtcct cctggccgtg gcgtccatcg cagtggcggc ggacgccggt gactcgggca 120  
agatcggcat ctgccacggc cgcgttggca gtaacctccc gccgtcgtct gccgccgcgg 180  
cactgctcaa gcggaacggg atcaccaagg cgcggctctt cctgccggac ccggtcgtgc 240  
tcccggcttt cgccgcggcg ggcacgacc tcatggtggg cgtgccaac gagaacctga 300  
ccttctctggc cgccggcg 317

<210> 44093

<211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-A9  
  
 <400> 44093  
  
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 cgggggtctca attgtcgggg tgggcaaggc tctaccaggg aaaagcatgg gaagtgttaa 120  
 tgggtgtcttc agaactgtcc ttatcgcata taatgtgtcg cttcttaaca aatatgcgaa 180  
 tgcacctgtc tacactcggg aagatctgaa gcggatgaaa gaaatatcaa tgagaaatga 240  
 caaccttgac ttactgggaa attctcttgc tccatccata tatggtcac tatg 294

<210> 44094  
 <211> 51  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-B1  
  
 <400> 44094  
  
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<210> 44095  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-B10  
  
 <400> 44095  
  
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 ggctgatgtc gacgagtacc gttgcttcat tggtaacctg tcctgggtcaa cgactgatga 180  
 aagcctcaag gatgctttca gcaaattcgg caacctcact gaggcaaagg tggttcttga 240  
 cttattttca ggacgttctc ctggtttctg ctttgaact tt 282

<210> 44096  
 <211> 336  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-B3

<400> 44096

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gcctcgagct cccgaccccg gcgctctcca agttcaaggt ggcgctgtgc cagctctcgg 120

tgacggcgga caagaatcgc aacatcgcg cgcgcgcgc gccatcgag aaggcggcct 180

ccgagggcgc caagctcgtc cttctcccag agatatggaa tgggccgtat tcaaatagaca 240

gcttcccaga gtacgcggag gacattgaag ctggcggaga tgcggcccct tcattttcaa 300

tgatgtcgga ggttgctcgc agcttacaag tcaactc 336

<210> 44097

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-B4

<400> 44097

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caaagctaata aacttcaggt gcgtctcacc aa 92

<210> 44098

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-B5

<400> 44098

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cctcgagctc ccgaccccg gcgctctcaa gttcaaggtg gcgctgtgcc agctctcggg 120

gacggcggac aagaatcgca acatcgcgca cgcgcgcgc gccatcgaga aggcggcctc 180

cgagggcgcc aagctcgtcc ttctcccaca gatattggaat ggtgcgtatt caaatgacag 240

ctttccagag tacgcggagg acatttaagc tggcggagat gcggcccctc cattttcaaa 300

gatgtcggag gttgctcgca gcttaca 327

<210> 44099  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-B7

<400> 44099

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tggctcctgat gcaggagcct gttgatcctg gttcgttctt gagagctaga tcaattggcc 120  
ttatgcccat gattgaccag ggtgaaaagg atgacaagat aataacagca tgtgctgatg 180  
atcctgaata ccgtcactac aacgacatta gcgagctgtc tactcaccgg ctgcaagaga 240  
tcaagcgctc ctttgaagat tacactagaa acgagaacaa agaagtatgc agtgatgcat 300  
tctatgccgc tacaacagct caagaagcca ttcagtactt catggacctg tatgccagtg 360  
atattttgca aaacttgacg cagtagattg caagcaacaa attatctatt atgcggtttg 420  
gatggaggcg tgattttt 437

<210> 44100  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-B8

<400> 44100

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tcggactaga tccgagggac tgacggttta ttcccattha agtgtggtct agcctctaag 120  
gcaggaccta ggcacttaag ttggaataat tcggacggtt ccgccacagc tggatatcga 180  
gctcgtacca ccacagagga atcaataaac tataaatacc atcctttttc aaagtaaaac 240  
ttgatagaaa caaatgttgg atagatctta agacgatcag gatataccta ggacgtgaag 300  
tcgtatgata atagaagggt agctaggtgg ctatttgagt aagccctaca agctactata 360  
agggatggga gttcttttct aatccctcta aattgaaata agtcgtttag gacgaacatg 420  
catgcattct tactt 435

\*<210> 44101

<211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-B9  
  
 <400> 44101  
  
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 aggctagggg ttggcgcgac gccgacgtcg acggcagcga ggatgagatg gccgccgctc 120  
 ctgccgccgc tgcgggcagg agcctctacg agatcttggg agttgagaag actgcttcac 180  
 aacaagaaat aaagaaggca tatcacaaat tggctctgcg cttcatcca gataagaatc 240  
 ctgggggatga ggaagccaaa gagaagtttc agcagctgca gaaggttata tccattcttg 300  
 gagatgcaga gaaaagagct ttatatgatg agaactggca ttactgatga tgatgcaactg 360  
 gtggggagaag ctgcaaatga tcttcatgag tacttcagaa caatgtgcaa gaaggtcact 420  
 gaggctgaca ttgaag 436

<210> 44102  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-C1  
  
 <400> 44102  
  
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 tggctcctgat gcaggagccg ggtgttcctg gttcgttcct gagagctaga gcaattggcc 120  
 ttatgcccac gattgaccag ggtgaaaagg atgacaagat aatagcagta tgtgctgatg 180  
 atcctgaata ccgtcactac aacgacatca gcgagctgtc tcctcacctg ctgcaagaga 240  
 tcaagcgctt ctttgaagat tacaagaaaa actagatctt agaagtcgca gttgatgcat 300  
 tcttgcc 307

<210> 44103  
 <211> 258  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-H7



<400> 44103

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ctggtgggct ccttcgccag cccgttcgtc caccgcgccg aggtggccct gcgcctcaaa 120  
ggggtgccct acgagctcat tctggaggac ctgggcaaca agagcgagct gtttcttgca 180  
cacaaccttt tgcacaaact tgtgtccgtt ctttttcacg gctacagggc cattttctag 240  
ttgctttgat attctata 258

<210> 44104

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C10

<400> 44104

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gaaagccaga tgtgaggtag aatgatgttg gtggctgcaa ggaacagatt gagaaaatgc 120  
gtgaagttgt tgaacttct atgcttcacc cagaaaagtt tgtaagctt ggtattgatc 180  
ctttaaaagg cgtgctttgc tatggcttac ctggcactgg caagacactt cttgcaagag 240  
ctgtagcaaa tcggactgat gcttgtttca ttcgtgtaat tggaagttag ttagttcaga 300  
agtatg 306

<210> 44105

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C12

<400> 44105

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taacaaacta cagggattaa tacattcggg ttaggcttaa tccatcatat agtgtggact 120  
aatgcttggt ggagcagttt cttgaactgt actccattgt gtctgttcga tccacttaca 180  
ctctcattct gactgtgita tgttatcatg acaatttttc tgtatacata tttttttaa 240  
tgatctctta cagctttcct tatcaaaact cgtatgactc ttaagcttat taggagggta 300

aactgacaat ttatt 315

<210> 44106  
<211> 252  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-007-Q1-K1-C2  
  
<400> 44106

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ggtacttgat cctgttagtg gtctgggtag actagatccg agggagggac tggtttattcc 120  
catttaagtg tggactagcc tctaatacat gacctatgca cttatgttgg aataatttct 180  
acagttctct tacatctggt attgaatcta gtaccatctc tttattaatc aatatactat 240  
atataccatt ct 252

<210> 44107  
<211> 429  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3076-006-Q1-K1-E9  
  
<400> 44107

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cggcgatggg gcggctgacc gaggagcagg cggcgcgcgga ggcgggctcg gcggggacca 120  
acgccacgtc cctcaagctc acacaccgag ctctctccga cgtgtcgtgc ctgagcagct 180  
tcaagaacct ggagcacctc gacctcggt tcaactgcct cgtcaccctc gagggtttgt 240  
cctcctgtgc caatttgaag tggctttcgg ttaaggaaaa caagcttgtg agcttaaaaag 300  
gtgttgaggg gctctcaaag ctgcaggtac tgaatgctgg caagaacgaa cttacaaaaa 360  
tggaacgaggt cacatcttta acaagcctgg gagcatngat tcttaatgat aacaatattt 420  
ctttcatct 429

<210> 44108  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F11

<400> 44108

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ccatggactc caccggcacc ggagcagggg gtaaggggaa gaaggagcgc gccgggacga 120  
aggtcggcgc gccaaaggaag aagtcgggtgt cgagggtccgt gaaggccggt ctccagttcc 180  
ccgtcggcgc catcgggcgc tacttgaaga agggccgcta cgcgcagcgt gtcggcaccg 240  
gcgcccccggt ctacctcgcc gctgtcctcg aatacctcgc cgctgaggtt ctggagctcg 300  
ccggtaatgc tgccaggac aacaagaaga ctgcattat tccgcgccac gtgcttctgg 360  
cgatccggaa cgacaggag cttgggaagc ttgttggc 398

<210> 44109

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F2

<400> 44109

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catccttcaa atgtctccac aaagctgtct ttgtcaaaca taccacccaa ccatttcctt 120  
tggtgtcat ctacaccacg gatggctgca cgcggatcgc atgtgttctc agggatgtat 180  
gcgacaggtc tatctggagg gtccaaaggc ttggtaatat gaagagggtc accaatgttt 240  
gcaggaacat agctgagcca cctcaatata ttggaaacac cttcaagatc atctgaaacg 300  
gtcaagtgga caacaccatt ggctgccatg atcttaggac caccagctg catgtgggag 360  
ctgtacactt ctgcccgaag gagc 384

<210> 44110

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-006-Q1-K1-F4

<400> 44110

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 tcaaacatga gctagcaaat gcctccccgg acctcatcaa caggcttgta ccggagcaca 120  
 ttagacggca gaacggtgtc aactttgggc atatcgggag ctaggagggc aggcggctgc 180  
 catggtctag tttttggtct tggtagccca tgtgcagggc cggttgcagg tgaaggtgat 240  
 attgctgcac catctgggag aggaggggct cagcagtacc tgagagagct gaaactatgt 300  
 aaattatctg accgcgaagg agtacggcca gtgttaagcc agtaaactgg cgcattgttg 360  
 tccagagtag ttaaggtaag aatgtanccan gtggagactg gt 402

<210> 44111  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F7

<400> 44111

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 ctgccggaca gctcctccgt ggcaatgccg gaagttgtcc tctgactttg cacggtgaaa 120  
 tgagagtgca tggtagcgtg atcgtagctc cgaggagaat ctgcttgggg gaagaagcgc 180  
 taagctatga ttggacccgg gcgtggggat tgctgcttga ttcgccgtct tggcggcagg 240  
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 aagtggccgt gtcgtagctt ccatttgttt ttcccttgta tttttacaag ctgtacatat 360  
 tcgagcggcc gagttcttcc atgctgctg aattggtttt gggcgatctt tg 412

<210> 44112  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F8

<400> 44112

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 ggcgagatgt tgatagactt cgtgcccacc gtggcggggg tctcgctggc ggaggcgcgc 180

gccttcctca aggcgcccgg gggcgcgccc gccaacgtcg ccatcgcggt ctgcgcctc 240  
 ggcggcgggg ccgtctttgt cggcaagctc ggcgactact agttcggccg catgctcgtc 300  
 ctcatctctc 310

<210> 44113  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F9

<400> 44113

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 ttatatattt tttaatttta ttataattta gtggaatttt tttatttttt tataaataaa 180  
 ataatgaggt ttttaatttt atatattttt ttttattttt ttatttttatt atatatattta 240  
 tttattttta ttgttatata atttttttta ttgtttttat tttttaaaatt tatttttattt 300  
 gttaaaatttt atttttttta tttatatatta tttggattta tattattttt ttatttttatt 360  
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 ttt 423

<210> 44114  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G1

<400> 44114

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 ctacacaact caagttctgg ttttcacgtg gctgtcgtgc ctgatttcag tctcggtgaa 120  
 cttcagcact tttctcgtga tcgggaagac gtctcctgta acctaccaag tccttggtcca 180  
 tctgaaaaca tgcttgggtc tcacctttgg ctatgtcctg cttcacgacc cgttttagctg 240  
 gagaaacata cttgggatcc taatcgcggt aatcgggatg gttctgtact cgtacttctg 300  
 cactagagag actcagcaaa aaccagcaga agcctccccg caagccgttc aggcaaagga 360

gggtgaatcg aaccgctga tctcggactc cctgagcgct gccgaaaat

409

<210> 44115

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G10

<400> 44115

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aaataaaaaa aaaaaaaaaa aaaaaaaaaa ataaagaaaa aaaaaaaaaa aataaaaaata 120

taaaataaaa aaaaaaaaaa taatataata aaagaataaa taaataaaaa aataaaaaaaa 180

aaaaaaaaaa aaactaaaaa ttataaaaag aaaaaaaaaa taaaaaaata 230

<210> 44116

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G2

<400> 44116

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actcctcctc cttegacaac ccgtcgcagt agcgtccgtc tctggtgtcc ggctgtccgg 120

ctctggactc ccgacctcga catcaggatc tgcgcctccc gaccggtatg tgggggctct 180

gaagaagggtg cagaaggatc tgggcgcgtc ggtgttcgag ccgctggtgc aggcgtacgc 240

cgcgcgtcggg aagttccctg ggatgtggca gcggtgaag atcgagaacg tggaggtcgg 300

ggaggggacg gccagctgc ttgactctat ctgcgccgat caataggtgg ttttcttt 358

<210> 44117

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G3

<400> 44117

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ggaaatacca ctacatcctg tacattattg tcctggcaat gcagcccagg atgcttttga 120  
 ctgtcgacga ggatctgaag cccctgtcag tacctgtccg cgtcgggcaa gctgtcgacg 180  
 tgggttggtca ggcaggaagg ccgaagacaa tcaccggctt ccagacacac tccacgcggg 240  
 tcttgctcgc agcaggggag agagctgaac tggcaactga aaaatacatt ccaactgaccc 300  
 cagtactaga gggctttgtg attctgaaga agaaccaga gtaccacgaa gagtgaagac 360  
 ccagatagca tattggtg 378

<210> 44118

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G9

<400> 44118

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 ctgggtctac cggtggcggc cacggtgaac tgcgcggaca acacgggcgc caagaacctc 120  
 tacatcatct ccgtcaaggc catcaagggc cgctcaacc gcctcccgtc cgctgtgtc 180  
 ggcgacatgg tcatggccac cgtaaagaag ggaaagcccg acctcaggaa gaaagtgatg 240  
 cccgccgtca tcgtccgcca gcgcaagccg tggcgtcgca aggacggtgt ctacatgtac 300  
 ttcgaagata atgctggagt gattgtgaat cccaagggtg agatg 345

<210> 44119

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-H1

<400> 44119

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 ggagtatgac cttatatgca attggctggg aaactcgaga tgggtgcact cgatggaatg 180  
 gtctggccag aaagacttcg tatcctcctg tgactcaccg tttgtagtag acggtgcaga 240  
 agctggagtc ttgaagagcc atggaccact gagcttcctc aaggtccaca atgcggggca 300

catggttccg atggaccagc cgaaagctgc cctggagatg ctgaggagat tcacgcaagg 360  
gaaactgaag caggaaccgc tccctgagac 390

<210> 44120

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-H3

<400> 44120

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gtgaaagaga gtaggtggac ggacggtgct ggcacgcga attcaactcc gcatctgcat 120  
cggcagcgcg ccagctccat agtgtaggag gagatggcgc tcacaagaat cggctcttgc 180  
ggccttgccg tcatggggca gaaccttgcc ctcaacattg cagagaaagg gttccccatc 240  
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<210> 44121

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-H4

<400> 44121

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gggtcgaggc aatgaggacc gtgtaacact catcaaggac taccgtggca agattgaaac 120  
tgagctcacc aagatctgtg atggcatcct caagcttctc gaatctcacc ttgtgccgtc 180  
ttccaccgct cccgagtcca aggtcttcta tctcaagatg aagggtgact actacagata 240  
ccttgctgag ttcaagactg gagctgagag aaaagacgct gctgagaaca ccatggtggc 300  
atacaaggct gccagagaca ttgctttggc tgagcttgct ccaactcacc ctattaggct 360  
tggaactggca ctcaacttct cagtgttcta ctatg 395

<210> 44122

<211> 399

<212> DNA

<213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3076-006-Q1-K1-H5

<400> 44122

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gattgaaact gagctcacca agatctgtga tggcatcctc aagcttcttt aatctcacct 180  
tgtgccgtct tccaccgatc ctgagtccaa ggtcttctat ctcaagatga agggtgacta 240  
ctacagatac cttgctgagt tcaagactgg agcttagaga aaagacgctg ctgagaacac 300  
catgggtgggt tacaaggctg cccaatacat tgatttggct gtgctttgtt ccaactcacc 360  
ctactaggct tggactggca cttaactttc tcagtgttt 399

<210> 44123  
<211> 360  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-E8

<400> 44123

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ctatgtgttc tggtcggcta aggctgccac tgccacatta gaaggcaaaa agttaagtgg 180  
atactctgaa ggagaatctg cttcacttga tttggatacc aagatatatg aaagggatga 240  
actcttgatg aagctgcaag ctgaggcaga atctattgta gctcagagga ggatctcacc 300  
tactgtagat gatcacgaag ccagttcttc agattctgtt tcttcagtga ctaaakatgt 360

<210> 44124  
<211> 55  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-B12

<400> 44124

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<210> 44125  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-B2  
  
 <400> 44125  
  
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 cagaagaact gaagtttcta atttacctga aggcggccaa ggttaccctg acggaatatg 180  
 agttcaatca gaagaatgtg ccaaatttgc aatcgcagct tgagaatatt gttggtgaga 240  
 attactttct gaaccagtct gccaaagaag cctacagatc ctacgttttg gcatatgact 300  
 ctcatcttat gaaagacatt tttaatgtcc atcaacttga tctgcaaaaa gtagccgcgt 360  
 c 361

<210> 44126  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-B3  
  
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 gcctggccac gctgcgttgc cgggggtatg ggcgggagct cgagtacgac cgcgttgagg 180  
 ctgccgaggg gctgctgtgc atgggtgtca gacaaggcga ggggagtgga ggaaccccaa 240  
 gttcccgggt gcatgcagat cgcaaattat gcgcaggaga gaaaatagga agtgggaagt 300  
 tctttcctct atttttctca accgcacaag atgcaccagc gcaaggaaaa tttgcatgcg 360  
 ttcatgcgcg aagtggggct tcgcaggggc gggcgccctc ccatgctctg gtgatg 416

<210> 44127  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-B5

<400> 44127

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atttcctccg gcttcttgtt agggatcagc agagattacg tagcattctg ggcagtggaa 180  
tgtcaaataa gatgtgggac agccttgttg agcatgcaaa gacatgtgtc ttaagtggaa 240  
agcattatgt atactatgct agagactcaa gaaacgtggg tgcaatattc aataacatct 300  
acgagttcac tggtttgatt gccgatgac agttcatttc agctgaaaat ctacagaca 360  
accagaaggt ctatgctgat g 381

<210> 44128

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-B6

<400> 44128

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tgggaagtga taacttagag cagagagcag cggagagctt tgacgagcct ttgctccctg 120  
agggtgaagga ggagaaaacc aggaggagcc aatttgtgca ggggcttgtc ttgctccctga 180  
tgtttgatga catcttatga agagcacatc caaaagggg aagggagaag gcatattttg 240  
ctaccagcaa acgtttcgcc ggcacagctg ttgtaacgat tcgctgattt gccatcgga 300  
gatggtgaca ttgctctggg ataatggggg agatgaactg tggatatgga tgtttcgtag 360  
tactatgcat catcattgca tgaataatag agtatatgta tgtatagctt ggtagca 417

<210> 44129

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-C1

<400> 44129

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gctaccgcgc gcagccgctg gccgccgtga aacggcgggc caccgcgcag ggcgagccgt 120

gcctggccac gctgcgttgc cgggggtatg ggcgggagct cgagtacgac cgcgttgagg 180  
ctgccgaggg gctgctgtgc atgggtgtca gacaaggcga ggggagtgga ggaaccccaa 240  
gtttccggtt gcatgcaaatt cgcaaattat gcgcaagaga gaaaatagga agtgggaagg 300  
tctttccttt atttttctca accgcacaag atgcacc 337

<210> 44130

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-C10

<400> 44130

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aagcgtccgc aactgctcaa gtactaccag ggcgtgattg acaacatgta caaaagtgtc 120  
aagtgaactc actctacagt acacatcccg atgaagattc ccaacgctga atcttgaatg 180  
agcagccaga agttctgctg tgtatatgct cgtagtttgt atgcgagaat tcttctctgta 240  
tcagtttttc agaaacgatt tgccctgggc atatatatat agcaaaaccg gcaatgtggc 300  
cagcagccaa gtggagacac cgtttcaaaa ttgattgaac 340

<210> 44131

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-C3

<400> 44131

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ttccccggtc tccctcctgc ccatccctgc acgccccttt tcatgcgcga ggaggggccc 120  
tggggaccac caccagcacc tccatccgcg cgcattctgc ggtggtgctc ctctcctcc 180  
tccccctgct cccggggcgg gcgctctcct gttcctcctc ctctgctgc tggtgccagg 240  
gccgggaggg cggcgtggag gtggcgctca tggggctcgc cggggacggg tcggcggaca 300  
ccgccaacct cagtaatagt gaaaatggtc ggttcagtta tggagttgca agttcttccg 360  
ggaaaag 367

<210> 44132  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-C5

<400> 44132

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 catcgccgcc agtgtctggt cgatccgatg gctccacga agaagtcgaa gaagagcaca 120  
 gagagcatca acaacaagct gcagctggtg atgaagagcg gcaagtacac cctgggctac 180  
 aagaccgtcc tcaagacgct ggcgaactcc aagggaagc tgatcatcat cgcaaacaac 240  
 tgccctccac ttaagaagtc tgagattgag tactacgcca tgctggccaa agttagcgtg 300  
 caccatttcc acggaaacaa tgttgatctt ggcaactgcct gcggcaagta ctac 354

<210> 44133  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-C6

<400> 44133

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 atttgagaag gttcttggga agaaaatacc tctgattggt ggtgaaagac gccaggtga 120  
 tgcagagatt ctgttttcag agactactaa agcagagagg gagcttaact ggaaagcaaa 180  
 atacggtatt gaagagatgt gccgcgacca atggaactgg gccagcaaga acccttatgg 240  
 ctatggatca cctgactcta tcaa 264

<210> 44134  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-D10

<400> 44134

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 gctgcagcgg ctcgctcctga agcacaacca gagcgtgcc gccggggggcg acaccgccgc 240  
 ggcagcgctt gcgcacggcc accgccgcag cgacgacagc cacctccacc accagcagca 300  
 tcgcgcgagc agcggcgcaa agaaggcgac gagcgccaag agagtcagtc cgtcgccgtc 360  
 gtcgctg 367

<210> 44135  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-D11

<400> 44135  
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 tccccgagtt catgtgccag ggcggcgact tcaccgcgg caacggcacc ggcggcgagt 180  
 ccatctacgg cgagaagttc cccgacgaga agttcgtgcg caagcacacc gcccccggtg 240  
 tgctctccat ggccaacgcc gggcccaaca ccaacggctc ccagttcttc atctgcaccg 300  
 tcgcgacccc ttggctcgac ggcaagcacg tcgtcttcgg gccaggtcgt cg 352

<210> 44136  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-D5

<400> 44136  
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 cagtcattgg ttctctgacg tgcttcttac tatttctgtg atcctcttct attttttttt 180  
 ttccattata tagtttcgtt tcttatatat gtttttttat tttttttttt ttttttatat 240  
 ctttattttt ttttttattt ttttattctt tttttctatt attttttt 288

<210> 44137  
 <211> 242  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-D7  
  
 <400> 44137  
  
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 togctagcct ctatgaccgg acctaaactg gtgtgtgaga aacatccacg actctcctcc 180  
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 tg 242

<210> 44138  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-D8  
  
 <400> 44138  
  
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 gcaagcgctt ccgcgacctc tcccgtggtg aggcctcgc ctccgaactt ctgcgcgcgc 180  
 ttcccgtctc cccgccaccg gtcctgacat cccaatcccc tcccgtcgtc gctcctcct 240  
 cctcctcctc cttggtctct gtcctcgacg agctcctcgc acaggctgac attcaagttg 300  
 agctgatgaa gaaagtgtgc cagtgggtgc acgaggccaa ctctatctgc gac 353

<210> 44139  
 <211> 61  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-E10  
  
 <400> 44139  
  
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<210> 44140  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-A5

<400> 44140

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tggggcacca gcaacgagtc gctggagaat gccttcgcct cctacggcga gatcctcgac 180
tccaagggtc tcaccgaccg ggagacgggg aggtctcggc gcttcgggctt cgttaccttc 240
tctctcgaga actccatgct cgacgctatc gagaacatga acggcaagga gctcgacggc 300
cgtaacatca ccgttaacca ggcccagtcg cgtggcggtg gcggtggcgg cggtgggtac 360
cgcgggcggtc gcggcgggccg cggctatggt ggcgg 395

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<210> 44141  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-E3

<400> 44141

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agcggcgaat ttacaactca ctagtgggtg ctgggacata tatgttcagg atagatgatg 180
aacgtgttat agatgccact cgggttggaa gtatagcccg tctgatcaat cactcatgcg 240
agcctaattg ctattcacgt gccataacta ttcttggaga tgaacacatc atcatttttg 300
cgaaacggga catagatcca tgggaagagc tgacatatga ttatagggtt ttttcaagtg 360
atcaacgact tccatgtttt tgtggattcc ccaaatt 396

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<210> 44142  
 <211> 227



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-E6  
  
 <400> 44142  
  
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 ataactacta attcctttct aaatatatct tttttatcat gtttttaatc ttatttattt 180  
 actatactat tatatattat aaatTTTTTTA tttttacttt ttatttta 227

<210> 44143  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-E7  
  
 <400> 44143  
  
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 gataactgct agtcagagga gccttcttga agttatggcc gcattccctt cagctaagcc 180  
 accactggga gtgttttttg cagcaatagc tctctgctctg caaccacgat actactcaat 240  
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<210> 44144  
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 <212> DNA  
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 <223> Clone ID: LIB3076-005-Q1-K1-G11  
  
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 gcaatgctta cttctcgctc ataggaggcc tacattttca taccactccc aatgcatttt 180  
 attttctgtc tcttatatgt tcttcataaa tatttttgat atttctaaat ttcttatttg 240

gcctttttct accctttttt ttcttcaatt attatttcta aaccccatth ctactattta 300  
 tetgttattt catccttatt ctttttacct ccaaaactt 339

<210> 44145  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G12

<400> 44145

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 ctcttcagcc ttctagtaaa cgaagagaac aaggccaaaa tcggacgatc tggagcaatc 180  
 aaacccctgg tcgacctgct gcgagatggc agtgcacagg ggaagaagga tgcagcaacg 240  
 gctctcttca acctatcgat atttcacgag aacaagggcc cggttgttga ggcccgggct 300  
 gtaaagcccc ttgtggagct gatggacca gcagctggga tggttgaca 349

<210> 44146  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G2

<400> 44146

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 gccactacca tctgctttgg ttcttcatgg tcattatgct ggttgtgtgg ttgattagcc 180  
 tatctataac gcctttatac ttgtagggcc ttattctgtt aggggcttta ataattgtga 240  
 actgggcgct tctaggaata ttcttgaagt tgctactgaa ctgcgtgttc ctgtaagaaa 300  
 cacacacctt tatgcattat ttgaacatcg gactgacctt gcgagttcca atgatgtcaa 360  
 atggaaccct acagaagttt tttatgcgtt gttgttcttg gatctttata tgttgtagtt 420  
 gtcaatcttt gtgt 434

<210> 44147  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G5

<400> 44147

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gaggtggcgg aggatgaggt ggcactaggt ttggactcca cgcacaaggc ggctcaggat 180
gcgatggatg agtgggactc ggccactgct gcggtttcaa ttgatgattt ggatgcatac 240
ctggaacaac tgagaaagga tgtagccatg gcagagcagg ggaatcagaa ggtatctggt 300
gagattagtg tctactgcaga gacaacattc aatgatatga ttcaattgga tgttggtatt 360
gaaatgctgg agtctttgat ttcgaatctt ggtccaaagg ctttgaacca ttttgatgaa 420
agttct 426

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<210> 44148  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G6

<400> 44148

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gaggtggcctt aggatgatgt ggcactaagt ttggactcca cgcacaatgc gtttaaagat 180
gcgatggatg agtgggactc acacactgct gccagatcga ttgatgatat ggatgcatac 240
ctgcaacatc tgagaaagga tgtacccatg gtacagcatt gcaatcataa tgcattctgtt 300
gagactagtg tctactgcaga tacaacactg aatgacatga ttcaattgga tgttggaatc 360
caaatgcttg aatatgtgat tact 384

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<210> 44149  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G7

<400> 44149

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gaggtggcgg aggatgaggt ggcactaggt ttggactcca cgcacaaggc ggctcatgat 180  
gcgatggatg agtgggactc tgccactgct gcggtttcaa ttgatgattt ggatgcatac 240  
ctggaacaac tgagaaagga tgtagccatg gcagagcatg ggaatcagaa ggtatctggt 300  
gagattagtg tctactgcaga gacaacattc aatgatatga ttcaattgga tgttggtatc 360  
gaaatgctgg agtctttgaa ttcgaatctt ggtccaaa 398

<210> 44150

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H1

<400> 44150

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ttcagataga gaatgatgga gatgggggtt gggaaccaga tgtgagggaa acgcatgatg 120  
ctgtcttatt gaggggatg aagtttatgg actggttggt gacaagagaa gagaaagaga 180  
tagctattgt cagtcacagt gggttcttgt ttcacacctt aagcatgtac agtaaggagt 240  
gccatccaac cataagatac taagttagca agcactttgc aaactgcgag ctacgggtcg 300  
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<210> 44151

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H10

<400> 44151

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tattgggcat gaggaatga atagtttttc agcaatttct gaaaatcagg acgtacagga 180  
 tgtgaataat gaacaacatg aaagggttcc aggtacacaa tgtggtctag caaatgagca 240  
 taccttggtg actgcagttg tcaaagaagc caccacacaa aatgtagatc accagttgga 300  
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 atctccggag ctagtagctg caaattcaga aaaage 396

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H2

<400> 44152

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 ctggtgccat caagaagctc actgtgtcaa gcttggttaa atctcaagtt gaatttgaga 180  
 gagaagtga gatgctgggt aagctacgcc atcgcaacct agttgcgcta aagggttatt 240  
 actggacgcc gtcgcttcag cttctcattt atgagtttgt ctccgggggc aacctgcaca 300  
 aacaattgca cgagtcattc accacaaact gcttgccatg gaaggagaga ttgacatag 360  
 tcctcggtat agcgagaagc cttgctcatc tccacaggca tgatattatc cactacaatc 420  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H3

<400> 44153

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 ggtactgaag ctgaggttta aagcaaagat gaagagagca aagggcagaa aggatcccc 180  
 acatcaaaac tgacaggcat gatcgttcct ggaacacaag gatgcagcag gacggcaaaa 240

tcctttgacc tgtgtcaaca ttttttgggtg ctgccgtgct agtagtagga gtatcttgca 300  
agcttttggt ttgcaagggtg tagtgggtcca gaaaacactc tgtctgctaa attaccagaa 360  
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<210> 44154

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H5

<400> 44154

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tgggtgtcaga gtcgtggttg catatggtgg tgcaccaata actaaccagc tgagggagtt 180  
agagagaggt gtggaaatcc tgggtggcaac tcctggtcgc ttgatggatc tgttggagag 240  
ggctagagtc tcacttcaaa tgataaagta tttagctctt gatgaagctg atcggatgct 300  
tgatatgggt ttcgagccac agatacgtaa aattgttgag ggcattggaca tgcctcaacg 360  
tgggtgagagg cagacaatgt agtttagtgc gacatttcca aaagagatac agaggatggc 420  
tgcagattt 429

<210> 44155

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H7

<400> 44155

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ggcctcgctt gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180  
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg ctctcggttc 240  
gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgcccg tggaggctgc 360

ggcggcggct gatacggtagg tggccgtgga ggctgaggct acggcggtagg ccggcgccgt 420  
gatggcggcg 430

<210> 44156  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H8

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caggcctcac atgcgccacg gactaccact ccgtacacat cgcctacatc acctacgggg 180  
aagacctoga gtccaagatc atgctcgatc cggacacgca gaggtacaga tgcttcgggt 240  
gcgtcaccat cttcacggac gatgcaatgc tgcacgccat ccagggcattg aa 292

<210> 44157  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-A4

<400> 44157

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cggcagcgcg ccagctccat agtgtaggag gagatggcgc tcacaagaat cgggtcttgct 180  
ggccttgctg tcatggggca gaaccttgcc ctcaacattg cagagaaagg gttccccatc 240  
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ggaaacc 307

<210> 44158  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G1

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actaccggtg cttcgccgat ggactcgaat gtgccacgga ctaccactac attgacacat 180

gactacacca cctacgacaa ggccttcgac tctactacca tcctagatca cgatacgcat 240

acgtacc 247

<210> 44159

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-D5

<400> 44159

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aagcccactg ccgaaaaact catgccgcgc aaggaggctg gcgagaagaa cggaacacg 180

aacgccatga agagcgtcac gacctacaag atctacatat tcaacgcgct caatcagggtg 240

caccgggaca ttggtatctc gtccaatgcc atgtccatca tgaactcctt catcaactac 300

atcttcgaga agctggctgt cgatgccggc aatctcgccc gctacaacaa gaagcccacc 360

ataaccttcc tggagatcca gacttttgtg cgcctcgtag ttcc 404

<210> 44160

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-D6

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gggtccccgg gtggccattg ggatatctcc ttctacctaa tgctccttca tgccaataaa 120

gactagaagt ttgggctgct aaagactatg ttcagtgcac tctcatcttc attcgacccc 180

ttggattatc atttcatatg gcatcagcgt tcaattttgg aggctgttgg agcttttcagt 240



tcaaattgacc ttcaacttgc agatataagc ttgtttatc aattgctttg tcttggaatg 300  
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<210> 44161  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E1

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 ctacttgggc attcacagtc cttgggtaca tcgggaaact tctatttggg gttgttgggt 180  
 taattgtttc aatagcttgg gttgcacata ttgtcatata cttgttgatt gatcctcctc 240  
 tatcttcttt cctgaatgaa gtcttcataa agttggatgg tgtttggggt ctgcttggga 300  
 ctgctgcttt cgcattcttc tgcttctatc ttcttatcgc agtgattgct ggggagatga 360  
 tgcttggatt gaagctagtt tttatcaciaa ttcacccgat gaaatggtga ggcactttaa 420  
 tgaactcctt cct 433

<210> 44162  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E11

<400> 44162

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 gatgaggagg tcgacgaaac tgggtgtgag gcccaaggaca ttgagctggt gatgaccag 180  
 gcatctgttt caaggcccaa ggctgtcaag gccctcaagg cttctaattg ggacattgtc 240  
 actgccatca tggatctgac aacctagggg gatatttctg tccgtgccac ttttgttttg 300  
 gagtgctatt gcaac 315

<210> 44163  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E2

<400> 44163

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atcttggcca gcccgatttc attgaaatca aggggtgtaac atactgtggc tcgtcagcaa  180
cttcaaagtt gactatggaa aatgtacctt ggcaactctga tgtaaaggaa ttctccgagg  240
tgttggcatc gaaaagcggg ggtgtatacg aagtagcgtg tgagcatgct cattcatgtt  300
gtgtcctact tgcaaaggta gataaattca agatcaacgg caaatggcat acctggatag  360
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tggccatgac gccct                                     435
  
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<210> 44164  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E3

<400> 44164

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acaatacgat ctctgagcag cctaattgggc taggagcgac tgcattgatg cagaaagcta  180
atcttgatct ctgccctata ataggcattg gcttatgtga cctggaatgg ctatacttat  240
ttgatgcacg catgccaggg tggacaccat ctttactatc aattctacca agcatctgat  300
ggtgactgtc ttagtatagc ttctactgtg gacagtttgt gcatctagtt gtctgaatct  360
atgaagacct gactgatcta tgattgaaac aatgatgctc tatgtgaact tagggatatt  420
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<212> DNA  
 <213> Zea mays  
  
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 gtatc 185

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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-E5  
  
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 ctaggtcata cttctcacac aatctcactt gattttacaa tactttttct taacatacta 180  
 ctgggtctaaa tactactctt tatacaaaaa ctacatcctt atctttacca taaaataagc 240  
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 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-E6  
  
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 ctagtgtctg tcagcaactt ctaagatgac tatggaaaat gtaccttgtc actctgattt 180  
 aaaggaattc tccaatgttg tttcatctaa aagcattggg gtataactaat tatcgtgtga 240

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286

<210> 44168

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E7

<400> 44168

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tgcctataca tactttctcac acattttctc ttatcaatac aatacatatc tctaacatcc 180

tactgatctt tatatacgac tacatttaac caaaaatcta atctttgatc tctaccctaa 240

aatatgcacc cccttatttt acctggtctt gctatactct ttttatgcac tcataccatt 300

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ctcc 364

<210> 44169

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E9

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caa 63

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<211> 429

<212> DNA

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cctgccaaat tagttctcag atccaagaca tgttcaatcc tattcagaag cttgataaca 180  
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 cagtgtcttct agtgtttttt tctcattcct cttttctttt ggggtggggg gtggggagct 300  
 tgaggctgac atttcaccat tagtgaagt accaaccagt agtcatttgc aatgagggttc 360  
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 gaatttcac 429

<210> 44171  
 <211> 171  
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 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-F11

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<210> 44172  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-F2

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 tgaaagcctc gcagatgact gagggccaac gtgaagctct gactgcagac caagctgggg 300  
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<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-F3

<400> 44173

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<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-F4

<400> 44174

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-F8  
  
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 acacacacgt ttatgcattt gtggaacatg ggactgacct tgggagttcc aaggatgtca 360  
 aatggaaccc tacagagttt tcatgcgtgt tggatcatga tcttcatatg gagttgggtg 420  
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 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gttcatcatg aactccttca tcaacgacat cttcgagaag ctggctgccg aggccgncaa 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-F9  
  
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 <213> Zea mays  
  
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 <213> Zea mays  
  
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acattgttag acaagaggaa gcgcctcgtg tacttgagag gcacttccat gatttgcaaa 180  
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 tccgtgaaag atatgcaaaa tctattgaac ctattcttag tgaagatcta agatatgtgc 300  
 acttcgactt ccaccgaatt tgtggccata ttcactttga gcgtctgtct cagctgtatg 360  
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<210> 44180

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-B7

<400> 44180

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 agtatggagt gaattctggc aggcattgct acagttggat aaaagggctg gaggcattgaa 180  
 ggatccaact ggtcttatgg gcaagaagca attcaccatc ttccacttca atggaattgc 240  
 caagtctgtg ctgaatggga atgcaagtgc aggtgggttca tgcctatac agagaccag 300  
 gttatgcaag ctaaattgtca ctgtcccccc aaggtggact caagatgagt atctggctga 360  
 tgttgtaagc gcatcaacca gcagcagcaa ggacgatagt attctttctc tagctcccc 420  
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<210> 44181

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-B8

<400> 44181

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 agtatggagt gaattctgac aggcattgct acagttggat aaaagggctg gaggcattgaa 180

ggatccaact ggtcttatga gcaagaagcc attcaccatc tggcacttca atggaattgc 240  
 caagtctgtg ctgaatggga atgcaagtgc acgtgggttca tgtactatac agagaccac 300  
 gctatgcaag ctaaattgtaa ctgtcccctc aaggtggact caagatgagt atctggctga 360  
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<210> 44182

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C1

<400> 44182

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 agtatggagt gaattctggc aggcattgct acagttggat aaaagggtg gaggcataa 180  
 ggatccaact ggtcttatgg gcaagaagca attcaccatc ttgcacttca atggaattgc 240  
 caagtctgtg ctgaatggga atgcaagtgc aggtgggttca tgcctatac agagaccag 300  
 gttatgcaag ctaaattgtca ctgtcccccc aaagtggact caagatgagt atcttgctga 360  
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<210> 44183

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-005-Q1-K1-C10

<400> 44183

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 aagtgaagaa gcctcaaaag ttccccagga cctcctctac aagagaattg cagaagtcaa 120  
 agagaaggaa aggcaaaatg ccttagaaga gattatctac tgttgggtta catatagggt 180  
 catggaaaat gacatatata tgacacctgc attatcacca gggggtggcc ctgtacgtga 240  
 catatccgcg ttgcctaatac aagaagacaa attgcgaaac atacactccg cagacgcctt 300  
 tgagatgata caaaaccatc tcaatcttat catgggagaa aagatagcat cnaccgccga 360

tactgntggtt gagatcagca acttgaatct ttggaagctg tatgc 405

<210> 44184  
<211> 219  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C11

<400> 44184

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ccgaattgag taaactttta aaggtccccc ggaccttatt tactatataa tttcataatt 120  
caaatttaat tatattcaaa attccttata atacattatt tactttttctt ttacatatat 180  
attcatttaa aatgacatat atattatact tatattattc 219

<210> 44185  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C2

<400> 44185

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cctctcatcc acgtccttga gacgggtaac ccagaggcaa gagcaaactc agctgcaact 120  
ctcttcagcc tttcagtaaa cgaagagaac aaggccaaaa tcggacgatc tggagcaatc 180  
aaacccctgg tcgacctgct gcgagatggc agtgcacagg ggaagaagga tgcagcaacg 240  
gctctcttca acctatcgat atttcacgag aacaaggccc gggttggtga ggccggggct 300  
gtaaagcccc tgggtggagct gatggacca gcagctggga tggttgacaa gggcgctcgcc 360  
gtttttggcaa tcc 373

<210> 44186  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C3

<400> 44186

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 tgtgccctgc tgtgttgtgt caccatccat ctataataat cttatatcta taccacacct 120  
 tttgtgtaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gatacaaaaa 240  
 acagatcaat taaaaaataa caaaataaaa aagaaaacaa aagaccgata tg 292

<210> 44187  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C5

<400> 44187  
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 aggtccccta caatgtcata gtcgccatcc atctataata atcttatatc tataccccac 120  
 cttattatta aaaaaaaaaa aatataacat acattactac aaataaataa aataaactaa 180  
 atacattaaa aatccaacta ttacttataa acaaaaatca attcaccatt ttccacttca 240  
 atgtaaattc caaatcta 258

<210> 44188  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C6

<400> 44188  
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 aaggggtctca tccacgtgct tgagaggggg gaccagagg caagagcaaa ctcagctgca 120  
 actctcttca gcctttcagt aaacgaagag aacaaggcca aaatcggacg atctggagca 180  
 atcaaacccc tggtcgacct gctgcgagat ggcagtgcac aggggaagaa ggatgcagca 240  
 acggetctct tcaacctatc gatatttcac gagaacaagg cccgggttgt tgatgccggg 300  
 gctgtaaagc ccctgggtga gctgatggac ccagcagctg ggatggttga caaggccgtc 360  
 gtcgttttgg c 371

<210> 44189  
 <211> 300  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-C7  
  
 <400> 44189  
  
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 ccagggtgcgc tgctaagttt gggcgcacgc atctataata atcttatatc tataccccac 120  
 ctttttgtgta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaata aaaaaaaaaat 180  
 aaacaaaaaa aaaatcatat ttaaattata ataaaaaatt atataaatct attatattat 240  
 tatatatata ataatcatat ttttaataat attaatatat taatatatat cattactaat 300

<210> 44190  
 <211> 110  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-C9  
  
 <400> 44190  
  
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 tcacctcatt aaatgcaaat ccctcttctt tattcaacac atatttacca 110

<210> 44191  
 <211> 203  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-D1  
  
 <400> 44191  
  
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 tgtaccctgc tgtgttgtgt ggccatccat ctataataat cttatatcta taccacacct 120  
 tttgtgtaaa aaaaaaaaaa aaacaaaaaa ataaaaataat acaaaaaaaaa aaataaataa 180  
 tctaaaatga taataataat taa 203

<210> 44192  
 <211> 467  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 taatatatgt gctctggcta attgaaatgc catgggtttg gggccatgca acgtctgaaa 120  
 atggagaaat cgctcaaatg tacttatctg gatggagcgt gccaatcat gatgggggct 180  
 tgacgggcaa caaactgagc aaccagatg tgcttgcac cactaccg ttcctctatc 240  
 tgggtgctgt cccagtaata gtccttatat atgggtctgt tgcagaaaag gctactgtat 300  
 ntttgcagca cagaataaga gtagtatact cttggggact tttttttttt ttattcttta 360  
 tttatttgta tttataattt ttttttttat tttttttttt ttatatattt tttgttttgt 420  
 tttttttttt tttttttttt tttttatttt tttttttttt tttatttt 467

<210> 44193  
 <211> 212  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-D11  
  
 <400> 44193  
  
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 tgatatatgt gctctgtcta ggggaagtgc catgggtttg gggccatgca acatctgaaa 120  
 attgataaat ttctcaaatg tacttatctg tattgatcgt gccaatcat gaatgtgtct 180  
 tgactgtcaa catatttttc atcttcatat tt 212

<210> 44194  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-005-Q1-K1-D3  
  
 <400> 44194

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gccgctccat ttgatcgaat tgcccgatgg cgcccaaggc cgagaagaag cccgcggaga 120  
agaagccgac ggaggagaag gccgagaaga agcccagggc ggagaagcgc gtgccgggca 180  
aggagggcgg cgagaagaag gggaagaaga aggccaaagaa gagcgtcgag acgtacaaga 240  
tctacatctt caaggtgctc aagcaggtgc acccggacat tggatatctg tccaaggcca 300  
tgtccatcat gaactccttc atcaacgaca tcttcgagaa gctggctgcc gaggccgnca 360  
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gcctcg 426

<210> 44195  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-005-Q1-K1-B4  
<400> 44195

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aggcggcccc aggaagaagt cggtgacgcg gtccgtcaag gccgggctgc agttccccgt 180  
cggccggatc gggcgctacc tgaagaaggg ccggtacgcg cagcgcgtgg gcactggcgc 240  
ccccgtctac ctgcgcgcg tcttgagta cctcgccgcc gaggttctgg agttggcagg 300  
gaacgcggcg aaagacaaca agaagacgcg catcatcccg cgccacgtgc tcttggcgat 360  
ccgcaacgac taggagctcg ggaagctgct ggcaggcgtc accatcgcg acggcggcgt 420  
cctccccaac atccac 436

<210> 44196  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-004-Q1-K1-H7  
<400> 44196

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gctcttcgag aagaggccga agcagtttgg gatcggcggc gcccttccgc ccaagaagga 120  
 cctccaccgc ttctgtcaagt ggcccaaggt cgtgcgcatac cagcgccagc gccgcatact 180  
 caagcagcgc ctcaagggtgc ccccggcgct caaccagttc acacgtaccc tcgacaagaa 240  
 ccttgcaaca aacttgttca agatgcttct taagtaccgc cccgaggaca aagctgccaa 300  
 gaaggagagg ctcttgaaga gggcccaggc tgaaaacgag gggaaaactg ttgagtcaaa 360  
 gaaaccaatt gttgtgaagt acggccttaa ccatgtgact tacctcatcg agcagagcaa 420  
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<210> 44197

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H8

<400> 44197

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 tgggtgtcaga gtcgtggttg catatgggtgg tgcaccaata actaaccagc tgagggagtt 180  
 agagagaggt gtggaaatcc tgggtggcaac tcctggtcgc ttgatggatc tgttggagag 240  
 ggctagagtc tcacttcaaa tgataaagta tttagctctt gatgaagctg atcggatgct 300  
 tgatatgggt ttcgagccac agatacgtaa aattgttgag ggcatggaca tgccctcaacg 360  
 tggtgagagg cagacaatgt tgttagtgcg acattcccaa aggagatata gaggatggct 420  
 gcagatt 427

<210> 44198

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H9

<400> 44198

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 aggaagggga aggccggcaa ggaccccaac aagcctaaga gggctcccag cgctttcttc 120



gtgttcatgg aggaatttcg caaggagttc aaggagaaga accctaagaa caagtctgtc 180  
gctgcggtgg gaaaagctgc tggcgacagg tggaaatccc tgagcgagtc ggacaaggct 240  
ccctatgtag ccaaggctaa caagctcaag ctagagtaca acaaggccat cgcagcctac 300  
aacaagggcg agagcactgc agc 323

<210> 44199  
<211> 320  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A1

<400> 44199

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aggggaaaca ataaaatgaa aaaagagaac cataaaaaaa caaaaactat ataaacaaca 120  
aaaaagaata tctggatagc gacaaaaacg atgtcgtaac acggcgtctt tatctttttc 180  
gtttacgttc gcgacacttt ttgggttgcc acgtcgcgtt tatttgtggt tgggtttggt 240  
gcatactact tgactgtctc atcatgagga agccactaga cttttacacc ctgtaaaatg 300  
ggaaaacccc ttggtttctc 320

<210> 44200  
<211> 275  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A10

<400> 44200

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ccgataccgc gctaccgccc gccacaagc tcctaccac agtttccctt ccgctcctct 180  
cctcgtccac ccgcgccgcg ccgttcttac tgttcgccag gcgccacctg ccgatcgcg 240  
ccctcgttac cttctgcgac acctgtgagg ccaag 275

<210> 44201  
<211> 370

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-A11  
  
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 aagacgctga tgagggattt caagcggttg atgcaggacc ctacggccgg cataagtggc 180  
 gccccgcagg ataacaacat aatgctgtgg aatgctgtca tatttcgacc tgatgatacc 240  
 ccgtgggatg gaggtacgtt taagctgact ctccagttta atgaacaata tccaagcaaa 300  
 ccaccaactg tgcgatttcg ttctaggatg ttccatccta acatttattc tgatggaagc 360  
 atatgcttag 370

<210> 44202  
 <211> 214  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-A12  
  
 <400> 44202  
  
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 attctgcgcc ataatctaac ctgccattga taacatatcg atgctgtata acgctgttat 180  
 acttggaccg gacgatagct gctctaacca atgt 214

<210> 44203  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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cgccccgagg tggcggagat ggccgtcgac gtgctgctct gcgcggtgcc gatctggggc 180  
gccgtcatga tcggcctcgt cgtcgggtgg tcttggcgcc cgcgctggac gggactgctc 240  
ttctctgggc tccggagccg ccttcgcate ctctgggtgc cgtcaggcct ttggggcccg 300  
cggtcttggg tcgcctgcac cgcgctctcc gtctgcttcg tcgcgaccaa gtcattcttc 360  
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<210> 44204  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A6

<400> 44204

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atggcttaat gtttacacga tggtagtaga ataataga tgatcatagc gttgtcagtt 180  
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gaatatgatg gcaaggctact tgtgctatca ctttttttat cttgagaaat gtgtcttgag 360  
agttgtgcat acctctgcat cagtgcactt gtgttccata tacatgtgcc acat 414

<210> 44205  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A7

<400> 44205

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tgaaccgaac caagcagtaa cattaatcac ccactctact actcgaagtt actaccagca 180  
gcttgcttca acagtagaag agagcgagcc gaggatggcg tcaccgaagc cctcgtcggc 240  
ggccctgctc ctctggcg cggcagccgt gctggcgctg gcgcgcgcgg acctgacgca 300

cgacaactgc gtgaagaaca agaaggtgac ggtgcagaac ctgtgcagcc acgacgtgac 360  
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 cccgcgca 428

<210> 44206  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A8

<400> 44206

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 gccgtcatga tcggcctcgt cgtcggctgg tcttgccgcc cgcgctggac gggactgctc 240  
 ttctctggcc tccggagccg cctccgcatt cctctggtgc cgccaggcct cggggcccg 300  
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<210> 44207  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A9

<400> 44207

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 aggctgatga gggatttcaa gcggttgatg caggaccctc cggccggcat aagtggcgcc 180  
 ccgcaggata acaacataat gctgtggaat gctgtcatat ttggacctga tgataccccg 240  
 tgggatggag gtacgtttaa gctgactctc cagtttaatg aagaatatcc aaacaaacca 300  
 ccaactgtgc gatttgtttc taggatgttc catcctaaca tttatgctga tggaagcata 360  
 tgcttagata tcctgcaaaa tcagtggagt c 391

<210> 44208

<211> 280  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-B1  
  
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 atatctgggt agcgacgaga cgatgtcgta gccggcgtct ttttcttttt cgtttcgttc 180  
 gcgacactgg gtgggttgcc cgccgcgttt atttgtggtt gggtttgtgc atactactag 240  
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<210> 44209  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-B10  
  
 <400> 44209  
  
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 ccccgccctt tttttcccg gtccgtggtg aataccatat cctaatttgg gccttgaact 180  
 aaaccggcca ttaagtt 197

<210> 44210  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
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 gtggaggggc ttaccggcgg cgagactgct ctggtgaggt ggtcgaggat gtacgggagg 240

tcttgaggat cacggcgatg tgcgggtcgc cgtcggggat ggtcggagtc ggccgggtccg 300  
 cgtgcgcgatg cggagatgct cgccggcggc gaggagtccg gcctaaccag ggcacgatag 360  
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 gaggggcggct gatgagaaca gaaggccggg ggtggggagg cccgcgccat gcgtccgaga 180  
 catggggagc cggcgcgcgc tcacggacat caagaacctc gtcgggggttg cctcgaaccc 240  
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 gttgccaaagc agccggccaa tgacaaggaa attcgtcgcc ttcttggcga gcaaagggca 360  
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 atgaggctta tggacagagg cccatagcac acattaaata gaggttttta tgtatctgaa 180  
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<223> Clone ID: LIB3076-004-Q1-K1-F6

<400> 44213

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 gccactacca atctgattga ttctatatgg ccatcatgct ctttgcttga cttatatgct 180  
 ctagctatga ctcacattgc acttgatagg gccttattct agtatggtag ctttaataat 240  
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 tgtaacaca 309

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G11

<400> 44214

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 tccttct 127

<210> 44215  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G12

<400> 44215

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gcggtggtcg aggatagggg aaacgcggcg ccgcggttgc ctgccaccga accgactcag 180  
gatatggaag aggagccctg atcccttcgt cccggtgccc ttcggaccga tggactccga 240  
gcactggatc tcgcgcctgg cc 262

<210> 44216  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tgatgtctac aaaactgcgg aagcaattag agtaaatggt ggacaaatta ctctgaacc 180  
tggcccatta cctggcatca ccaccaagat aactgcatgc acagatccag atggctggaa 240  
aacagtgttt gtcgataaca tagattttct gaaggagttg gaagaatgag ctttgctaga 300  
gatctcaact tggtagatca agtccatcac gggtgcaccc ccgtgagttc catgcatgac 360  
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<210> 44217  
<211> 244  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G3

<400> 44217

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ccatggaata gtaagggggg taatgatgac agcatgaaaa ctgacacctg ggggtgcttg 180  
tcgacaggtt gggatcagca actatcttgg agcatactta atttctagac tgagggacca 240



&lt;210&gt; 44218

&lt;211&gt; 433

&lt;212&gt; DNA

&lt;213&gt; Zea mays

&lt;223&gt; Clone ID: LIB3076-004-Q1-K1-G4

&lt;400&gt; 44218

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catctcccgt gccctcact gtttagtggc gacgactggg cgacagtcgc cgccgccgcc 120

cgctaggggc cgtgccccctg gtctccatct tcggcgcttc gccaccaga tatgagcagc 180

tggcaattcg attttgaggc cattatttga taaccggga caagtgcact ggttacctga 240

ccatttttagc tttttgagat ggctacacag ttgccatgct tcacacagct cagtccaccg 300

tcttgtagtt ggataaaaga tgcgggaac tgcaaggcta cgcctgatag ggtagccaga 360

agtgcccgag ctttgggcca ctgtcacttt cegtgtgtg catgccctcg tagtgcaaac 420

ctctttcaag aag 433

&lt;210&gt; 44219

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; Zea mays

&lt;223&gt; Clone ID: LIB3076-004-Q1-K1-G5

&lt;400&gt; 44219

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aggttctccg ggggttcgggt tcgtgggtga gcggatcgag atggcggcgt cggatgttga 120

gtaccgctgc ttcgtcggcg gcctcgctg ggccacggac gaccactccc tccacaacgc 180

cttcagcacc tacggcgagg tcctcgagtc caagatcatc ctcgatcggg agacgcagag 240

gtcccgcggc ttcggcttcg tcaccttctc cacggaggag gcgatgcgga acgccatcga 300

gggcatgaac ggcaaggagc tggacggccg caacatcacc gtcaacgagg ccagtcctcg 360

cggcggccgt ggaggcggcg gcggcggcgg gtacggtggt ggccgtggag gcggcggcta 420

cggcgggtggc gggcg 435

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-G6  
  
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 gtattgtgtg ctctccagtc tgtgcttatt tttaaaagta tatcatctac atttgccctt 180  
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 ttacattgtg tgtatgtgtt ccatgtgctt catgatgtgt tttacaact aggtgtatac 300  
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 tacat 365

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-G7  
  
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 atggactggt tgtggacaag agaagagaaa gagatagcta ttgtcagtca cagtggtttc 180  
 ttgtttcaca ccttaagcat gtacagcaag gagtgccatc caaccataag agacgaagtt 240  
 agcaagcact ttgcaaactg cgagctacgg tcatgtgtgt tggttgacag aagcatgctt 300  
 gggatcatatt cgtcaagatt caactatgct ggcaagaatc caaccgggct agatgtgcct 360  
 aatgatattg cagataagaa gcaggttgat gaagctcaga agaactgagg caaccttgaa 420  
 agcataccgt agatgacttg gatta 445

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 <211> 199  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G8

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ggattatatg gacttggggc acggcaatat agggcactcc atctaataa aataggctga 120

ttatcacact attcttaatt gtataagtat atcacctata gataacttac tctaatttgc 180

tcttacctca taattaatt 199

<210> 44223

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G9

<400> 44223

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acggggggatt ctccaacacc gtttgcggcc ctgcctcact aactaatct gctgcgaacc 120

cccctctcgt attccttctc gccatcctgc cccgagcgca ccgtttatag gccgccaggc 180

tccggcacc cgcggcgccc gggtcgcct ggggtcggaa tgccctgctt cccgccgctg 240

ctgctcggag tcgggtccacg gctgcgctcc ttctctcgct actacgactc gctccagtcc 300

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<210> 44224

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H1

<400> 44224

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gtatcacagc tggttctttt gatatttcaa atcaaagtca attcaattgc tattgtctgt 120

atgaggctga tggacagagg cccagagcac acaataaata gaggttttta tgtagctgaa 180

ggtgcaaaaa tgtgtagtgt ggagcaggctc aggggtgcac aagctcttta tgtatctggt 240

agcctgttca atcactcatg tcagcccaat gtgcacgcat attttctttc acgtgcgttc 300  
 gtgctgagaa ctactgaatt tataaagtcc gggagcccag ttgaactgtc atatgggtcca 360  
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<210> 44225

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H10

<400> 44225

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 tccgaggaga aatttgtggg cctcgtaaa agcgagccag agaagtttga aaagttcgat 180  
 gggaaatttg aagaaaagga aattttgcgg tttgtggagc tcaacaagtt tcctctaatt 240  
 actgtattca ctgagctcaa ttctggtaaa gtatattcaa gccctattaa gctacaggtc 300  
 ttcacctttg cagaggctta tgatgttgaa gatcttggat ctatggttga agaaa 355

<210> 44226

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H2

<400> 44226

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 ttcttgtttc acaccttaag catgtacagc aaggagtgcc atccaacat aagagacgaa 240  
 gttagcaagc actttgcaaa ctgcgagcta cggtcgatgg tgttggttga cagaagcatg 300  
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 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H3

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 atgaggtcta tggacagagg cccagagcac acattaaata gaggttttta tgtagctgaa 180  
 ggttcaaaaa tgtgtagtgt ggagcatgtc atggttgcac aatctctcta tgtatctggt 240  
 agcctgttca atcactcatg tcagcccaat gtgcacgcat attttcttcc acgttcgttc 300  
 ttgctgagaa ctactgaatt tataaaggcc gagtgcccag ttgaactgtc atatgggtcca 360  
 catgttggct agatgcata ttca 384

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 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H4

<400> 44228

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 tgtagtcaag attgcatata gtgattcacc tagttcatta cagctgatgc atgtataaca 180  
 ccttaagcat gtactgctag gattttccatc caaccatatt agactaattt agcattcact 240  
 tatgtaaact gctagctact gtcaatggtg ttgtttgact tatacatgct ttgggttatat 300  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H5

<400> 44229

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gttcttgggg aaccagatgt gagagaagga atgaggctgt cgcattgagg ggtatgaagt 120

ttatggactg gttgtggaca agagaagaga aagagatagc tattgtcagt cacagtgggtt 180

tcttgattca caccttaagc atgtacagca aggagtgcc tccaaccata agagacgaag 240

ttagcaagca ctttgcaaac tgcgagctac ggtcgatggg gttggttgac agaagcatgc 300

ttgggtcata ttcgtcaaga ttcaactatg ctggcatgaa tccaaccggg ctagatgtgc 360

ctaatagatat tgcagataag aagcagggtg atgaagctca tatgaactga tgcaaccttg 420

aaagcatacc ggaaaatgaa cttggatt 448

<210> 44230

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-F5

<400> 44230

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acaggttaat tgtacaaggt tgtctggcct gaagtacca acagtcaata ccaagatgta 120

cttacagtat aacaagatgg atagacttga accttacgac tccttttctg atacctttgt 180

ttataagctg atcatgttac tgtgtttgat acacccatga tgggtacatt gagaccattt 240

atgt 244

<210> 44231

<211> 397

<212> DNA

<213> Zea mays

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<400> 44231

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tgggccgctc catttggtcg aatggccgat ggcgcccaag gccgagaaga agcccgcgga 120

gaagaagccg acggaggaga aggccgagaa gaagcccagg gcggagaagc gcgtgccggg 180

caaggagggc ggcgagaaga aggggaagaa gaaggccaag aagagcgctg agacgtacaa 240  
gatctacatc ttcaaggtgc tcaagcaggt gcacccggac attggtatct cgtccaaggc 300  
catgtccatc atgaactcct tcatcaacga catcttcgag aagctggctg ccgaggccga 360  
caagctcgcc cgctacaaca agaattccac cataacc 397

<210> 44232  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tcccagctgc agcaccaagc ggagcctgga atgacatgct ccctggggca agactcgctt 180  
ccacttgact aagcatttag aatcattagg atcattgaaa gtgtgaaact gtgtcattag 240  
aatcacttcc tctgtttagt ggaccantat tttttctatt tttttaat 288

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-004-Q1-K1-D12  
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agaagaaggc gaagaagtcg gtggagacct acaagatcta catcttcaag gtgctgaagc 300  
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<210> 44234  
<211> 92

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-D2

<400> 44234

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ctgtttcatt atggtcgaag ggcctatttc tc 92

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-D7

<400> 44235

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tctccgcccg cgccccctcc agggccatgc caggcgcccg cggcagggtc gcaggagccg 180

ccgaggcggg cgttccactg ttctacgcc cccctggggg tccaggtccac ccccgcgctc 240

tgggcccgtc cctatccggg ggagggcgag ggcgagggcg tggatacggg ggctgagaag 300

gggctggaga tcgcgaggct ggggacctcg ccgcggatcg tggagaagct cgccgcgcgg 360

ggcatcacca ggctcttccc catccagagg gctgttcttg agccagcaat gcaaggaaaa 420

gacatgat 428

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E1

<400> 44236

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ctacttgggc attcacagtc cttgggtaca tcggcgaact tttatgcgga gtcgtaggta 180

gaattgcttc aatagcttgg cttgcacata gtggcatata catggtgatt gatccttcac 240



tatctcctat cctgaatgat gtcattcttta agttgtattg tgtttgccgt ctgacttgca 300  
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 gattcttgca gtttaatttag cgtttataac attttaccg ttaaaatggg gatgctcttt 420  
 aatta 425

<210> 44237  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E10

<400> 44237

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 gaagtttgca accggagctt ctgttggttaa gggccctacg gataaggagc aaatcgacgt 180  
 acaaggggac atctcatatg atattgtgga gttcattaca gatacatggc ctgatgtacc 240  
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 ggtttat 307

<210> 44238  
 <211> 136  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E11

<400> 44238

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E2

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tctcttgtcc attcacattc atgcccata taggcaaact 160

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E4

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ctacttgggc attcacagtc cttgggtaca tccggaaact tctatttggg gttgttgggt 180

taattgtttc aatagcttgg gttgcacata ttgtcatata cttgttgatt gatcctctc 240

tatcttcttt cctgaatgaa gtcttcataa agttggatgg tgtttggggg ctgcttggga 300

ctgctgcttt cgcattcttc tgcttctatc ttcttattgc agtgattgct ggggagatga 360

tgcttggatt gaagctagtt tttatcaciaa ttcacccgat gaaatgggga ggcactttaa 420

tgaac 425

<210> 44241

<211> 361

<212> DNA

<213> Zea mays

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<400> 44241

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tgcggtccg actcgtatgc ggcgggcacg aaccggagac tcctcgttgt cgtgccactc 120

tctccgcccg cggcccctcc aggcccatgc cacgcgcccg cggcagggtc gcatgagccg 180

ccgatgcggg cgttccactg ctctacgcc cccctggggg tcatgttcac ccccgcgctc 240

tgggcccgtc cctatccggg ggagggcgag ggcgagggcg tggatacggg ggctgagaag 300

gggctggaga tcgctaggct gtggacctct ccgtggatcg tggagaagct tggctcgcg 360  
g 361

<210> 44242  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E6

<400> 44242

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ctgctgtttt tagtactttg gttcatctca ggtcttctat attgtgaggc tttgtttatt 180  
gaattaatct cattggttgc tctttttgtc ttatactctg tttgttattt ctactcttta 240  
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ttttgtttct atattttttg tttttatctt ttttttgtat tgttattttt gtttattatt 360  
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ttttatttta tattcttttt cttttttttt 450

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<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E7

<400> 44243

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acctcacgac gccgttgctg aaacctttgc tcagaagctg agcatgtagt gtgcttgta 180  
cacccatgat ggggtacattg agaccattta tgttgtatta gtaatatatt gtttgattgc 240  
ccaattaacg ggggtgagcca ttgtttcatc acaacatcga tgtgttagca gataaccaca 300  
tcgccgtttt aagcaaacat tgagtgcgga attttgttgt ctttgtgaag tccgatgaaa 360  
gcatcttctt ctgac 376

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 <211> 216  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-E8  
  
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 tatttggtgt agttgggtta attgtttcaa tagctttggt tgcacatatt gtcataact 180  
 agttgattga tccttcccta acttcttttc ttgaat 216

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 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-F1  
  
 <400> 44245  
  
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 gccactacca gctgttttga atctatcatg gtcattatgc tgtttgcgtg ggtgatttgc 180  
 cgagctatta cgccatggca cttggagggc cttattctgc taggagcttt agtaatggtg 240  
 aactgggagc tactaagaat atacttgagg ttgctactga actgtgtgta cctgtctgaa 300  
 acacaccggt ttatgcatat gtagaacatg ggactgacct tgggagttcc aaggatgtca 360  
 aagggtaccc tacagagttt ttaaagcgtg ctggatcatg atcttcatat ggtgctgggg 420  
 gtaatc 426

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 <211> 274  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-F11  
  
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cgcttgcatt ccgctcgact cgctcttctg caacgccgcc atctaccggc ccaactgcaag 180  
gactctaca ttcacggctg actgatacta tttgagcgtc tgcgtcaacc acctgttcca 240  
cttctgctg gcacgcctgc tcttgacga catg 274

<210> 44247

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-004-Q1-K1-F12

<400> 44247

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tcccaagtga cctgagccat gccacatgta gctcatgtcc taagctgccc ataaattcca 120  
ttatgtttct agtcgtccac ctctagtcg gacgactaat cgatcatcagt caatgattaa 180  
tcggatggcc agaaactaat caacttattg agttgtagct cccctgcgaa cagccccctgg 240  
tctaactggg taggtgatgt agtagcaaac tctcanggtc tgagttcaat tcttagtgga 300  
agcgaatttt catacctggg ttaaaaaatc cccttgctgg ttctcaccgc etc 353

<210> 44248

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-F2

<400> 44248

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ttacagtaga acaagatgga atgacggaac ctgacgacgc cgttgctgaa acctttgctc 180  
agaagctgag catgtagtgt gcttggtaca cccatgatgg gtacattgag accatttatg 240  
ttggattagt aatatattgt ttgattgccc aattaacggg gtgagccatt gtttcatcac 300

aacattgatg tgtttagcaga taaccacatt gtcgttttaa gcatactttg aattgctgaa 360  
 ttttg 365

<210> 44249  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-004-Q1-K1-A2  
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 togagctctt caggcaggag agctacttcg cctatctctt tggagtgcag gaaccaggg 240  
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 ctgactatgc tgtttgatg ggtgaaataa aacctttgtc gtacttcagg gatacataca 360  
 aggttgatat ggtctcctat gttgatgaga ttgcaagggt tgtgcaagat catttcggga 420  
 accatggaaa gcctcttctg gttctgcta 449

<210> 44250  
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 <212> DNA  
 <213> Zea mays  
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 cttcttgag ggcgaagagg agaagacacg gcactgcacc gaacacctgg agctgttaaa 180  
 gcacgagagc tacttagcct atctgtttgg agtgcaagaa ccatggttct acggggcaat 240  
 tgacatagcc tgtggacagt caattgtgct tgctacaaga ttgccagctg actatgctgt 300  
 gtggatgggt gaaataaaac ctatgtagta cttcagggat acatacaacg ttgaaatggt 360  
 cttgtatgtt gatgagattg caagggttgt gcaagatcat tttgggaact atggaaagcc 420

t

421

&lt;210&gt; 44251

&lt;211&gt; 422

&lt;212&gt; DNA

&lt;213&gt; Zea mays

&lt;223&gt; Clone ID: LIB3076-004-Q1-K1-A7

&lt;400&gt; 44251

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cctgctcgcg cgcttactgt agccgcagct ttctccaccc ttggcgatgg aggcgcgat 120

cgctcacgct ccattctgctc cggctcctgcg ccgctcgcgc agcctcaacc ccacgcccgc 180

cgcccgcccg caccctaaat cctggcaggg ggtgctttcg gcgaggcacc cgtcgaacgc 240

cgtcaggtgc gagccgtccc agcgcgccaga ggcgcgcccgc cgcctgcgcg cggcgcagcc 300

ggctggcgct gacgcggcgcg ccgggaggaa gcggtcggcg gtgttcgtgt ccggaggggg 360

atcaaacttc cgggcgatcc atgaggccgc gctgggcggc gccgtgcacg gagatgtcgt 420

cg 422

&lt;210&gt; 44252

&lt;211&gt; 425

&lt;212&gt; DNA

&lt;213&gt; Zea mays

&lt;223&gt; Clone ID: LIB3076-004-Q1-K1-A8

&lt;400&gt; 44252

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gctgctcgcg cgcttactgt ggcgcagct ttctccaccc ttggcgatgg aggcgcgat 120

cgatcacgct ccattctgctc cggctcctgcg ccgctcgcgc agcctcaacc ccacgcccgc 180

cgcccgcccg caccctaaat cctggcaggg ggtgctttcg gcgaggcacc cgtcgaacgc 240

cgtcaggtgc gagccgtccc agcgcgccaga ggcgcgcccgc cgcctgcgcg cggcgcagcc 300

ggctggcgct gacgcggcgcg ccgggaggaa gcggtcggcg gtgttcgtgt ccggaggggg 360

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cgcg 425

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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-A9  
  
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 cctgtctaca ctcggaaga tctgaagcgg atgaaagaaa tatcaaggag aaatgacacc 240  
 tttgacttac tgggaaattc tcttgctcca tccatatatg gtcatttatg gataaagaag 300  
 gcagtagtac tgttgatgct aggtggtgt 329

<210> 44254  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-004-Q1-K1-B1  
  
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 gtgctcaacg accgcctggg gaagaagggt cgggtcaagt gcaacgagga cgacaccatc 180  
 ggcgacctca agaagctggt ggcggcgcat acggggacgc gccccgagaa gatccgcac 240  
 cagaagtggg acaacatcta caaggaccac atcacctca aggactacga ggtccacgac 300  
 ggcattggcc tcgagctcta ctacaactga gccgnncgcc ctctctccct ctggtcaggt 360  
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<210> 44255  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-B10



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cgggcgggat cgtgatggag ctgtacgcca acgaggtgcc caagaccgcg gagaacttcc 180

gogcgcgttg cacgggcgag aagggcgtgg gcaagtccgg gaagccgctc cactacaagg 240

gctccacctt ccaccgcgtc atccccgagt tcatgtgcca gggcggcgac ttcacccgcg 300

gcaacggcac cggcggcgag tccatctacg gcgagaagtt 340

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<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-B2

<400> 44256

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ggatcagagg agatatgcta ctcatggata agatttgaag aggagaatgg caccttggat 180

gattatgata ttgctgtaaa gaaggttacc actgggctaa aggagcttat gacattcatg 240

tctcaagagg aggctaaagt tgaggcttac cttaacctca atgataattc taatgcaaata 300

gattcctctc agaagctata accaagctgc aataaacagc atctctctgc taagaaaaga 360

aatgtgaatc catcaaatag taccatgcca tcagatgacc aaggatcaaa tgtgcaaagt 420

ggtctcagta ggtgctgtta c 441

<210> 44257

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-B4

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gtgcacagat cttcgtgggg cacttggccg gcgacgaacg cccagcagat tatcggttat 120

acatgcgccc aaccatgtcc tttaccgggt cgcgccctgc caatgatccc tgcctcgcca 180  
 agatcctgtc caagcaaggg gacaacaaag ttctcttcgc ggacaaggta ttaaagttca 240  
 cccaatctgg aaagatgaaa agacgcatcc tagtgatcac agactttgct ctataccttg 300  
 ttgaccctga ggccaacata ttgaagagga ggatagcact tgcagctgtg gataagctat 360  
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<210> 44258

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-B5

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 cgctcacgct ccattctgtc cggctctgcg ccgctcgcgc agcctcaacc ccacgcccgc 180  
 cgttcggccg caccctaaat cctggcaggg ggtgctttcg gcgaggcacc cgtcgaacgc 240  
 cgtcaggtgc gagccgtccc agcgcgccaga ggcgcgcccg cgcctgcgcg cggcgcatcc 300  
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<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-B6

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 gcagcagtgg tgtcctccgc cgcggatcga gctcccgatc cgcgcagtgg gagtggcggc 180  
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gtagtccgc ggtggtagat ccgccggtcc tgtcgccgga gatggactca tctgtcgaga 300  
 agcaggggag cgtggcgctg gatccggacg agcgcgcgcc ggcgtccggc gaaaccaagg 360  
 cctgcaccga gtgccacacc accaagaccc cgctctggcg cggggggccc tgcggacca 420  
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<210> 44260

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-C1

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<210> 44261

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-C12

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 ggtgtcatgg gagcaggaca atattcctga atacagattt tgtgaaatga tcctcgagag 240  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-C2  
  
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 aacatatcta tgatggaaac agtgggtccaa gtctgcatgt gcacaatggt tttcacaact 180  
 gtccaagcca ttagtccttc atccttctta atttctcata gaagtggaca tttcatggta 240  
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 ccaggcacac ctggtggtca accaatgacc ccaggcaatg ctggaatgga tatgatgtcg 180  
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 <211> 316  
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 <213> Zea mays  
  
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 tacttttagga atgaacacat taaaggagct ggagttgtca aggtgcaaaa agatctctga 180  
 ggctagcaca tgtgagttgt gagaaacagg cacaactagg agccttttgg tccagaactt 240  
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 ttaagaacca gtcctc 316

<210> 44265  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-003-Q1-K1-G5  
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 ccgggaagaa aaccctaata ctagcgctca tcaagcagat gttcggcgcc ggcgcggaga 240  
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 <212> DNA  
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 aagctatcac atcttagttg tgagaaacag gcacaactag gagccttttg gtccagaact 240  
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cttaagaacc attcctcctt gtaaataatt ttttaaaaaa ggtcttgcta tttgtcccaa 360  
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<223> Clone ID: LIB3076-003-Q1-K1-G8

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 ggagggagca tacgaatctt tgcagtacca actgggtcat ggatggcttc caggatgctt 180  
 ggaagcatgg ctatggctgg ggtcctgcat ctatccagac cgatccatgg gacaactgtc 240  
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<210> 44268  
 <211> 366  
 <212> DNA  
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<223> Clone ID: LIB3076-003-Q1-K1-G9

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 cgcaaggctt actgcgcgcg caaaggaggc ctacagtttc gtacgacgcc caaggcatgg 180  
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<223> Clone ID: LIB3076-003-Q1-K1-H10

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 caccgcgtcc agtctacat ccaatcggag accaagttct gggcggacaa gaagaagttc 180  
 gggacagatg ccatatacgg atccgccctc aacatccgca aggatctcga tgcccaaadc 240  
 ctctccaggt tccaaaggcc ccctggtgct ttgccgtcat ctctgcttgg atacgaggca 300  
 ctgacaggtt ccttgatga ttgtggattt gaagattatc ttaacatgcc tcatgattct 360  
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<223> Clone ID: LIB3076-003-Q1-K1-H11

<400> 44270

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 ctgcgatgac cccgaggag gccggattcg tcgcgtcct cgacgccgag ctgcacaagt 180  
 tcaacgcctt cttcctcgag aaggaggagg actacgtcat ccggtgaag gagttgcagg 240  
 acagggtggt gagcgcccg gcgggtgggt cggcggagga gctgctgcgg gtgcgcaagg 300  
 agatcgtcga cttccacggc gagatggtct tgctggagaa ctacagcgcg ctcaactaca 360  
 ccgggctggt caagatcctc aagaagtacg acatgaggac cggcgcgctg atccgcctg 420  
 cctttatccg gaacg 435

<210> 44271  
 <211> 88

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H12

<400> 44271

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gaaaaaaaaa aaaagtaaaa tgggacat 88

<210> 44272  
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 <212> DNA  
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<223> Clone ID: LIB3076-003-Q1-K1-H2

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gttgagtgcg agctcccgtt gacggtgagg atggacatgt tgctgcaatt catgcggaag 180

gcatggttca tcttgctgtg gctgtctggt tactagtata agatgatccg atcctacaat 240

cttgtagc 248

<210> 44273  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H3

<400> 44273

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atcttgatca agccattaac cttttggagc atactaatct ttgcagtacc aac 173

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 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H4



<400> 44274

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atcttatccg agctgctggg gggtgagtg c gaggtcccgt tgacggtgga gatggacaag 180  
ttgcggcaat tcgggcggaa ggcattggttc atcgtgcgtg tgctgtctgg ttacgaggag 240  
aagaggatcc ggtcctacag gctgcagctg cagaagcgca tcgagatggc acaagctaga 300  
acggaagagc tgcataaact gccagaaaag gttatct 337

<210> 44275

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H5

<400> 44275

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gttgagtgcg aggtcccgtt gacggtggag atggacaagt tgcggcaatt cgggcggaag 180  
gcatggttca tcgtgcgtgt gctgtctggt tacgaggaga agaggatccg gtcctacagg 240  
ctgcagctgc agaagcgcat cgagatggca caagctagaa aggaagagct gcagaaactg 300  
ccagaaaaag ggggggtttt tttaaaaatt ctttgggtcc gggggaaaaa ggggggtttt 360  
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<210> 44276

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H6

<400> 44276

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gttgagtgcg aggtcccgtt gacggtggag atggacaagt tgcggcaatt cgggcggaag 180

gcatggttca tcgtgcgtgt gctgtctggt tacgaggaga agaggatccg gtcctacagg 240  
 ctgcagctgc agaagcgcat cgagatggca caagctagaa aggaagagct gcagaaactg 300  
 ccagaaaagg ttatc 315

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 <211> 346  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-003-Q1-K1-H7  
 <400> 44277

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 gtcagcaaaa ctcaggaac tgggaagtgt acaaggaaca gcaggatcaa gccagcaacc 120  
 ggggggagca gacgaatctt tgcagtacca actgggtcat ggatggctcc caggatgctt 180  
 ggaagcatgg ctatggctgg ggtcctgcag ctattcagac cgatccatgg gacaactgtc 240  
 aatatagcta tcaggttcct gacagccagg gctcgtatgg aactggact cactggagaa 300  
 gggcgaaacc aaaaaatttt gggggaaccc tttgggggtt aagggg 346

<210> 44278  
 <211> 251  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-003-Q1-K1-H8  
 <400> 44278

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 gctaggtata tggggtgtca gctaccgta cacaggcaaa cgcgtaattt gtgtgtttat 120  
 gcgaccggcg atgtgtgtat atatgctact acatgttttag tgatgctttc cgagacctga 180  
 gacaacgccc gtctgtttta acgtggcgca tgaataattc tggatctgga tgtaatacaa 240  
 gatataacta a 251

<210> 44279  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H9

<400> 44279

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caccgcgtcc agtctacat ccaatcggag accaagttct gggcggacaa gaagaagttc 180  
gggacagatg ccatatacgg atccgccctc aacatccgca aggatctcga tgcccaaadc 240  
ctctccaggt tccaaaggcc ccttggtgct ttgccgtcat ctctgcttgg atacgaggca 300  
ctgacaggtt ccttgatga ttttgattt gaagattatc ttaacatgcc tcatgattct 360  
gacagtttcc gtcaacctga catgcacat ggaat 395

<210> 44280

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-A1

<400> 44280

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ccacggctc gtctctctc agggcgggga ggagaagaca cgtactgca ccgatcacct 180  
cgagctcttc aggcaggaga gctacttcgc ctatctcttt ggagtgcagg aaccagggtt 240  
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tgactatgct gtttgatgg gtgaaataaa acctttgtcg tacttcaggg atacatacaa 360  
ggttgatatg gtcttctatg ttgatgagat tgcaagggtt gtgcaagatc atttcgggaa 420  
ccatggaaag cctcttctgt ttctgctaca 450

<210> 44281

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-A10

<400> 44281

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 ggccggggcg aaggtcggcg ggccaaggaa gaagtcgggtg tcgaggtccg tgaaggcccg 180  
 tctccagttc cccgtcggcc gcacggggcg ctacttgaag aagggccgct acgcgcagcg 240  
 tgtcggcacc ggcgcccccg tctacctcgc cgctgtcctc gaatacctcg ccgctgaggt 300  
 tctggagctc gccggtaatg ctgccaggga caacaagaag actcgcatta ttccgcgcca 360  
 cgtgcttctg gcgatccgga acga 384

<210> 44282

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-A11

<400> 44282

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 ggcacctgga gcagcggggg aatgggggaag aagtggagct ggctggcgcg aaggtgctgc 180  
 gggccatagg aagaagtcag gagtctaggt ccgtgaaagc cgtgctccag ttccccgctc 240  
 gccgcacgtg gcgctacttg aagaatggcc gctactcgca gtgtgtatgc tccggctccc 300  
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<210> 44283

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-G3

<400> 44283

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 ttacttttagg aatgaacaca ttaaaggagc tggagttgtc aaggtgcaaa aagatctctg 180  
 aggctagcac atgtgagttg tgagaaacag gcacaactag gagccttttg gtccagaact 240

ttatctctga acaaatctga attgttttga tgttcagtga tgaacaggcg atatattctt 300  
 cttaagaacc 310

<210> 44284  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E12

<400> 44284

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 accactggcc acctgatcta caagcttgga ggcattgaca agcgtgtgat tgagagggttc 180  
 gagaaggaag ccgctgaaat gaacaaacgg tccttcaagt acgcctgggt gcttgacaag 240  
 ctcaaggctg agcgtgagag aggtatcacc attgatattg ctctgtggaa gtttgagacc 300  
 accaagtact actgcactgt cattgatgcc cctggacatc gcgacttcat caagaacatg 360  
 atcacgggta cctcccaggc tgactgtgct gtcctgatca ttgactccac cactggtggt 420  
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<210> 44285  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E3

<400> 44285

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 aacatatata tggaaaaagc cagaagattt gattcttcat tacagagtgg tccaaccgag 180  
 atgatcacgg cttcagatca catggttctc agcatgcctg caccataaac ggtgtggttg 240  
 aagacaccct tggcttagcg aggaaaccgt cagaaatatt ttgctcttgg gctccggtag 300  
 cctttctcct agaaattccc ccccccgagg gaaaaccttt tcggtttttg ggcccttttt 360  
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<210> 44286  
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<212> DNA  
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<223> Clone ID: LIB3076-003-Q1-K1-E5

<400> 44286

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tcccattatc ccttaatctc ttataactccc 150

<210> 44287  
<211> 175  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E6

<400> 44287

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gtctcattct ctggaatttc ggacacctat ctcaattctc atcttccta ctacgtgata 120  
tcacaatttc cctaaaactc ctatcatccc ttactactct ctctttata tcaca 175

<210> 44288  
<211> 299  
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<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E7

<400> 44288

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atccccggat gctcgcgtct cctccccctc ctccctaggc ggcggcgggc ggcgacgggc 180  
cgacgcccgc gcgatcgaga agcagctcgg cggcctgggc atcgccggcg gcggtgggtt 240  
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 <211> 334  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-003-Q1-K1-E8  
  
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 cctgatgcac gtaaagaact taatcttgta agtaaaattc aactcataac gatctcacta 240  
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 <211> 238  
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 <213> Zea mays  
  
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 atcattaaat ccaataatat ttgcatacc aatcctcact tctaacaact aatgtcatag 180  
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 <213> Zea mays  
  
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 aaagagctat gcatatctgt gctttaccat agacactcac acgtcgactg acatacgctt 180

agtgctgcaa ctacaatagg tatcacagac tgggtgacat aaaccgctta catgtcaaga 240  
ctgagca 247

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<212> DNA  
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tggagaaggt agcgaaaact gttgactcgg aggagctcac tgtggaggag cgcaacctcc 240  
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<210> 44293  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F2

<400> 44293

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taccaggacc tcaccgtcac tgacatcgct tgtgctgcac taaatggtat caagatgggt 180  
gacaaaaccc ttactgtcag acgagcaaac cagggggcat ctcagcccag accagagcag 240  
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ggagcgcttc ctacaa 316

<210> 44294  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F5



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tggaagagcg cccagtggga gagattcaga gagagggcggc gatggcgcgg catttcgtgc 180

tgaacaccgg cgccaaggtc ccctatgttg ggctcggcac atggcagtct gaccccgcg 240

tcgtcggcaa cgccgtctac gccgtcgtca aggggggtta ccgacacatc gattgtgcca 300

gagtttacgg ggaaaaaaaa aatttttggga aggaaagggg agggtaaatt tttttggggg 360

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<210> 44295

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F6

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taaatggtat caatatgggt gacaaaacc ttactgtcac acgagcaaac caaggggcat 240

ctcatcccat accagaacag gaaagtatcc tattgcaagc acaacaacat gtgcaattgc 300

ataaacttgt gtatcaagtt ggagcgtgc ctacaaaagg ttttttggg gttttaaatt 360

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<210> 44296

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F7

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 acttgaaagt ctcttggtg ggtagaggat tgatgggtta tctcggaac aagggttcga 240  
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<210> 44297  
 <211> 248  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F8

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 gacttggtga gtactgtaac gaaagcgtgc aactgtcgc aagtgtgaat gtgatctatc 180  
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 atcatgtc 248

<210> 44298  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F9

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 aatgtgtaca tggcgaagct cgcctagcaa gcagagaggt acgaggaaat ggctgagttc 180  
 atggagaagg tagcgaaaac tgttgactcg gaggagctca ctgtggagga gcgcaacctc 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-003-Q1-K1-G1  
  
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 aattggctta aaattttttt ttttttttt 329

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 <213> Zea mays  
  
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 <400> 44300  
  
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<210> 44302

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E10

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 ccaggcccag acatgctcat catcgctctc cttcatgatg aggcattgat agcatggatt 180  
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<211> 295

<212> DNA

<213> Zea mays

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<400> 44303

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 ctctatgctt actgttcgct cataggatgc ctacattttc atactactcc cattgcatga 180  
 tatttgctgt cgcctattgt ttcctgatac acatttttga tttccttaa attcttaatt 240  
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<210> 44304

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-G2

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ctgtgactgg aaaaataatt ttccgggatac tttatgaatg aacacattaa aggagctgta 180

gtcttcaatg tttcaaaaag atctctgatg ctatctcatg ttaaattgtc agaaacttcc 240

acatctagga tcctttttgt ccataacttt atctctttac acatcttaat tgTTTTgatt 300

ttcaattatt aacatgctat atatTTTTTT ttataaacca ttactccttt tttttctaaa 360

tatTTTTaaa tagcttgatc tatTTTgttc cccaatattt ttttcttttt atctatatat 420

TTTTTTgata TTTTTTcaat attt 444

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<211> 231

<212> DNA

<213> Zea mays

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gaggatgcat ccacgatctt cattcatggc cttctttgag gtgggttaa at ggattaagtg 180

ttacctgcta agatgtttta atgtatgcta tccattcttt gctgttaata t 231

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<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B2

<400> 44306

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<211> 313

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 <213> Zea mays  
  
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 cagtcggtcc accactagac ttggtggttc catttaagca accaccagct cgacctgaca 180  
 aaatgaatgt gatcaaggta tcaaacatta tggggattga ccctaaaccc tttgatccaa 240  
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 ccattcgact cttgcaagtc gaccaccaca ggacacctta actacaaact ttgaagcatt 180  
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 aagtacgcct tggtgct 257

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 <211> 320  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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catgtcgact ctggcaagtc gaccaccaca ggacacctta tctacaagct tggaggcatt 180  
gacaagcgtg tgatcgagag gtttgagaag gaggctgctg aaatgaacaa gcggtccttt 240  
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<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B7

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tccagtatgc aaagcgtctg ccgtgccttc caagggctga agcattgggg atgctggaaa 180  
ccccgttccg gattacaaac cattcttgcg tttgtctacg tacattgatc ttttacctat 240  
atgcattata tatagatcat gtctagattg atgacgctag aacagcttgc gatttgggag 300  
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<210> 44311

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B8

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tccagtatgc aaagcgtctg ccgtgccttc caagggctga agcattgggg atgctggaaa 180  
ccccgttccg gattacaaac cattcttgcg tttgactacg tacattgttc ttttccctat 240  
atgcattaga tatagatcat gtctagatgt atgacgctag aacagcttgc gatttgggag 300  
gaagcttata cccaaaaggg ttttaatat agtttaagaa cccttttggg ggggtttttt 360  
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 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-003-Q1-K1-C11  
  
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 <223> Clone ID: LIB3076-003-Q1-K1-C4  
  
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 caccgatgtt cggtc 195

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-003-Q1-K1-C5  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-003-Q1-K1-C6  
  
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 tcccgcgcct gcactttctt atggtggggt tcgcgcgcgt cacctccagg ggctcccagc 180  
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 aga 303

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 <211> 268  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-003-Q1-K1-C7  
  
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 tctgatgaag atcatcacgg aggccttcgc tgtgtcagac acggaccaga acggcttcat 180  
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 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
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tctgatgaag atctcacgga ggccttccgt gtgtcagaca cggaccagaa cggcttcac 180  
tccgcgcgacg agctccgcca tgtcatgact aatcttggct agaacctaac tgattagcag 240  
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<210> 44318

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-D3

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aaattgccgg aaccgagttg tacagaaagg tacgcagatc cgttttgaag tttttaagac 180  
aggacatcgt cgttggggcc tccgtagttg agatccaatt ccagcacgca catttatctg 240  
tgaatatgca cgtgaaatca ttgacgtaaa tcgagtgaat ggtcaagatc actacatatt 300  
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<210> 44319

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B11

<400> 44319

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cctgccagat gaagatgcca acagaaacaa tgtaagggtc attgtaaaag ctccatctga 300  
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<210> 44320  
 <211> 315  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-003-Q1-K1-D4  
  
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 aggagatcgt ggttggggcc tccgtagttg ggatccaatt cgagcaggca catttatctg 240  
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 <223> Clone ID: LIB3076-003-Q1-K1-D6  
  
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 catgggcagt tccatgacct gatgaaactc ttcgcgactg ggggccactt tctatagacc 240  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-003-Q1-K1-D7  
  
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 catgggcagt accatgacct gatgaaactc ttcgcgactg tggggcacgt tccatatact 240  
 aactatattt tcatgggtga ttttgtggac cgtggcttca acagtctgga ggttttcacc 300  
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<210> 44323

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-D8

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 ctcatcgaag agtcgaacgt tcaaccggtg aatagccctg tgacggtttg cggtgacatc 180  
 catgggcagt tccatgacct gatgaagctc ttcgcgacgg gggggcacgt cccagagacg 240  
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<210> 44324

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-D9

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 cgttcatgaa tcacttcac aatacaatcc atgatctact gtgttatgta ttgctgaact 180  
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<210> 44325

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E1

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 gtcgtcggcg gcggcgagga gaggaggccg gccggggccg gggccggggc cgtcagcgca 300  
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<210> 44326

<211> 296

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-002-Q1-K1-E4

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 ccacagccgt cgcgcgcagg agggtaggga ggatgccacg taagatcacc ttggtcaagg 180  
 agggtagacc gcagccggtg gacgctggtc aaggggagcc cgctccggca ccggcgccac 240  
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<211> 173

<212> DNA  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-F7

<400> 44330

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ccgtgtcggg cgctacttga agaagggccg ctacgcgcag cgtgtctgca cgggcgcccc    240
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tgctgccaag gacaacaaga agactcgcat tattccgcgc caagtgcttc tggcgatccg    360
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<210> 44331  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-G2

<400> 44331

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agaaagaaga agagaagaga agacttggct gtgtgcagcc aaggggctgc ttcgggtctag    180
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 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-G4

<400> 44332

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<210> 44333

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-G6

<400> 44333

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aggtggcagt gttcaggcag atggctcctat gcaaacacca gagaatttgg accatctgat 180  
tgtgcagagc aatcctgttc caaatgaagc tcacctggat gactttgcgg gtgccccgcg 240  
taatcaatta ccaatagaag aagaagaaga agctcatcat cctgagatgt caaggctgga 300  
gcctacaaac attctgttcg agttcgatag ggtttaagcg gtgacctgcc tggctgcctc 360  
atcagcatat ccctaacca tgaataataa atcagtgcc ttgaggtgcc cctttctagg 420  
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<210> 44334

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-G8

<400> 44334

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ttgaaccctc caatactgta aatggcatgc aaattgaaga gacggaagat gctccagagg 120



acttggatga cttgcagacg gaagaaacgg aagagtcttc agatgaagat ttagatgatg 180  
accgtgtgat taacattgct ccccgcaagt ccaataagcc agcagttcga gagaacataa 240  
agcatgaagt gaataaggac tcacagttac aaaagcgctc aaggattgaa gagacttccc 300  
tgccaaagaa gaggcagaga tctgaagcct catctgaacc tataaaaagg aatggagaac 360  
aacatgtttc agttactcta gacactagaa cgcagggcaa gactgtgcct ggaaaatcag 420  
aagccagcca aatgaacag aagtctctgg attttgaagg aaaaagaaca tatgat 476

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-H1

<400> 44335  
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ccccctctt cgttctctc ctcagccaga 150

<210> 44336  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-H5

<400> 44336  
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ggagagagca cgggggcttg atcgaagatg gatgccggag caaagggtgt gaagaaggcc 180  
gcggctgtgc gtcgcggcgg gggctggccc aagaagaagc cgtctctctg ctccgtga 238

<210> 44337  
<211> 152  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-H6

<400> 44337

ctgacgcgtg ggcggacgcg tggtcggacg cgtgggcaca acgaagacac aaacgcacag 60  
gagcacacga agcaaggggtg acgactgacg agagggggag agagagaggt catgaaggat 120  
ggagagagca cgggggcttg atcgaagatg ga 152

<210> 44338

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-002-Q1-K1-H8

<400> 44338

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aagaaagaag aggtcatggc ggtgtagtct atcagctgag tgggaaagag tggagcaatg 120  
gtggggggct gtgccagcgg cgacggcgcc gccgaaggga cgctcgcgag gtggcggagg 180  
gcggcgggcca agcggatcgg cctctcatgc gccncttct tctcctacgc cgcctctccc 240  
tccccgcctg cttccaagac catctccac tccgcactga atgcgcctga tggagagcag 300  
caaangatgg aggaaccac cagcaccaga gtggctgaca agaattctatg tgcaatatgt 360  
ttggaactcc tcagcacgag catcagcagc gatgttgata gtggtgaggc gggagcaatc 420  
tacacagcgc agtgcttcca ctcatcca 449

<210> 44339

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A1

<400> 44339

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gagcggagaa gagcgcaaga tgttcggctt cgggcaccac ggccaccacg gccagaaccc 120  
gtcggcgcac ggcggcgtgc accagcccac ctttaagatc ttctgcaagg ccgacgagg 180  
gtactggctc accgtccgcg acggcaacgt ggtgctggcc cccggcaacc cgcgcgacga 240  
gcaccagcac tggtaacaagg acatgcgctt cagcacccaa gtcaaggact aagagggcaa 300

ccctgcgttc gccctgggtca acaa

324

<210> 44340

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A12

<400> 44340

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ggggagtcga gtcgagacca gcttgggtcc gtcataaaaa gtcacttag ttgttgtccc 120

cgcctctttt tttcgtgttt cttgtttgat tacatcatct tattttgtgc ttgaatctaa 180

cctgccatta agttttttatc gtttcgttat ttctctgggtg tgcttgtcta gttcctttgt 240

tgctctaacc atggacgcag gtcctcgctc g 271

<210> 44341

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A3

<400> 44341

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cggagaagag cgcaagatgt tcggcttcgg gcaccacggc caccacggcc agaaccgcc 120

ggcgcacggc ggcggtgcacc agcccacctt caagatcttc tgcaaggccg acgaggggta 180

ctgcctcacc gtccgcgacg gcaacgtggt gctggccccc gccaaaccgc gcgacgagca 240

ccagcactgg tacaaggaca tgcgctttag caccaggtc aagg 284

<210> 44342

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A5

<400> 44342

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attccatgta tttggtacca tcgtgagagt tccttgaagg agcgggctaa caatttacag 120  
tcttttcggg aaaatggtgg tgtgcttgta tgcaactgat ctgctgcccg tgggcttgat 180  
gttccaaatg tttctcatgt cattcaggca gaatttgctg cctgtgctgt tgattttttg 240  
cacagggtgg gccgcacagc cagagctggc caatctggta tagttactag cctatacaca 300  
gaggcaaatc gtgaatttcc cttttggggg ggtttaaagc agcccaaggg gtttttt 357

<210> 44343  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A7

<400> 44343

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cctaggtgtg cttgagctat gcagttcatc agcgtgcttc ccctagaggg aaaagcgtgt 120  
atgagcccag tgaggaaagg cagtggacgt tatgggagtg agaggatgag gatcaactgg 180  
tgcaatatca agcgcaacaa ggcactaagg atgatgtgtt tcattgcaag ggggtgctgct 240  
agcagcacc agtgtgtgct cacatcagat gctggcccag aactctatg tcgtccgaac 300  
atgacttcgg aggaaattt 319

<210> 44344  
<211> 243  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-E3

<400> 44344

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gccacctagt gttcctggag ttggtcagca gctgttttat ggtcagccac ctccagcctt 120  
catcaaccct caggctggat ttgctttcca gcaacctatg atgcctggta tgaggcctgg 180  
tgggtccaatg ccgaacttta tgatgcctat ggttcagcag ggacagcaac cgcaacgtcc 240  
tgc 243

<210> 44345  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A8

<400> 44345

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cctaggtgtg cttcagctat gcagttcagc agcgtgcttc ccctagaggg aaaagcgtgt 120  
atgagcccag tgaggaaagg cagtggacgt tatgggagtg agaggatgag gatcaactgg 180  
tgcagcatca ggcgcaacaa ggcactaagg atgatgtgtt tcattgcaag ggggtgctgtg 240  
agcagcacc cagtgtgtgt cacatcagat gctggaccag acactcttgt cgtccgaaca 300  
tgctttcgga agggggg 316

<210> 44346  
<211> 111  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B1

<400> 44346

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ccccgcttcc aaaccttttt ttggtaaacc cccctctgt ggggtgtttt t 111

<210> 44347  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B10

<400> 44347

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ctcccgggga gtccggtcta gaccagctgg cctccgtcat aaaaagctca cttagtgtgt 120  
gtccccgcct ctttttttcg ctgttcttgt ttgattacat catcttattt tgtgcttgaa 180  
tctaacctgc cattaagttt ttatcgcttc gttatttctc tgtttgtgct agtcttgctc 240  
ttttgttgct ctaaccatgg acgcatgctt ccgctcgatc tcctcggcga agaaccgcgc 300

cgtcttcgt

309

<210> 44348  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A1

<400> 44348

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caaggagcag gcggaggagg agctgtgccca agccacaatg ggtatctcgc gtgactcgat 120  
gcacaagcgc cgggccaccg gtggaaagca gaaggcctgg aggaagaagc gaaagtatga 180  
gcttggtcgc cagccagcca acaccaagtt ggcaagcaat aagacagtga ggagggtccg 240  
ggttcgtgga gggaatgtga aatggagggc tcttcgcctt gatactggta actactcatg 300  
gggaagtgaa gctgttaccg gcaagacc 328

<210> 44349  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A2

<400> 44349

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gctagttatt gcttcacctt ccttatcttt gctgcagcaa ctggaggccg aggcttttac 180  
aaggagctgg ggaagaatgg gcagaagctg ctatcgaatc tgaagctttg cttggcacac 240  
cagcactgga gagat 255

<210> 44350  
<211> 124  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A3

<400> 44350

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gcttgcgaaac ggggtggcttc ttcggcgagg cttccccctt ggtaccaggt tggcctttct 120  
tttc 124

<210> 44351  
<211> 394  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-002-Q1-K1-A4

<400> 44351

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gatggcacc c aaggcggaca agaagccggc ggcgaagaag cctgcagagg aggagcccg 120  
gacagagaag gcggagaagg ctccggcggg gaagaagccc aaggccgaga agcgcctccc 180  
ggcgagcaag tccgccggta aagagggcgg cgagggcaag aaggggaaaa agaaagcgaa 240  
gaagtccgtg gagacctaca agatctacaa tctcaaaggg ctgaaacang tgcaccccg 300  
cattggcatt tcgtgcaaag gcatgtccat tatgaacttc tttattaacg acattttcga 360  
gaaactcgcg ggcgaatccg gcaagctggc gcgc 394

<210> 44352  
<211> 469  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A6

<400> 44352

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ggacaggaga gaacgttcca ttgaaaggat gcaagagaga .ggtacagata aagcccttga 180  
aaaaggtaga gaggatagaa ataaggatga gaggaataaa gttaaatatg ctgaaccttc 240  
ggtggaccgg acacattctt ctgatgaacg attccgaagg caaagggttg caacggcccc 300  
aactatttcc ggaaggtttg gacccaatc aattggcgcc aaccgacgtg aagaagatgc 360

tgaccgaaag ggtgggagct tcaagcatgg tcaaagggtca tcttctaagc acgatgagaa 420  
 agaaaggaag cagtcagagg agaataatttc gtcatttcag gatgatggg 469

<210> 44353  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A7

<400> 44353

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 gatcgggctc cgctccttct ccgccggcgc cgccaccgcg tcgcaggcgc cgcccatggg 180  
 ggccaccgta gtcggcgggc tcatgggcgc ccggttcccg aagcgccggc cgggcttcgc 240  
 caaccgagag atgaggggta gcttgcgccc cagagggtccc tactactggg tgaagtgcaa 300  
 gcctgacgag ccataaccag ttaggcagcc gaaccaaggg agcattcgag ggaggaagga 360  
 gaag 364

<210> 44354  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A8

<400> 44354

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 atctcatgga gacaaacttt gatagtacaa gttggagggtc tcgaatttta aggtaatat 180  
 gcgctagtat tgctatttgc agtattgac tttgttggtg caacctaacaa ttagattgat 240  
 gtgaatgagc tgctgtagac gtttgattta atctgcatgt gctatttttg tggagtttga 300  
 tatgtatgtg cttacatttc gtgacttagc aataccgggt gtatgctgag aatgttgaaa 360  
 agctattacg ttttctgtga acagttgtgt 390

<210> 44355



<211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-002-Q1-K1-B3  
  
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 gggagccacc aggaggtgta ccacccgggc gccctcaagg cggcgttcgc tgagttcatc 180  
 tccaccctca ttttctgtctt cgccggccag ggctccggca tggccttcag caagctgacc 240  
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 ctgttcgtgg ctgggtctgt gggcggaac a 331

<210> 44356  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-002-Q1-K1-B5  
  
 <400> 44356  
  
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 cacaaagtgc agacacagtg ctatgaagat gctaagctga tgaagctgtt tccggaaatc 180  
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 aaaggttcaa acc 253

<210> 44357  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
  
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gtcttccaac aatgcgctcc tggttgggat agggatgctt tgttacgcga gcttgagttc 180  
 agatgtaaga tattccgttt aagtgaggat gcaaaaggga gagtgttgtt caggaaatgt 240  
 ctagatctaa ttaaaaggct aagaacactc cagctgattc catcaatcct aggatgattc 300  
 tacaagca 308

<210> 44358  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C1

<400> 44358

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 cgtcgaccgc ggaggcgagg aacatcaaga cgacgacgac gacgacggag aagaaggacg 180  
 atgcggtggt gcagccgcag acctttccgg ccttcgaccg cctcggcggc gccgcgtccc 240  
 cggcgttcgg tggccttccc gggacctcgt cgggcggcag cagcattcca gcgttcagca 300  
 tgccgggcag cggcagcagg cttcccggcg ggtcggtc 338

<210> 44359  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C2

<400> 44359

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 cgatatggtc ttgaagttgg tctgaccaac tatgcagctg cctactgcac tggccttctg 180  
 ttggagagcc gtgtgctcaa gatactggtt ttggatcaag agtacgaggg caatgttgaa 240  
 gccactggtg aggac 255

<210> 44360  
 <211> 359  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C3

<400> 44360

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ccagtcagaa ttgatggggc cctcaagggt ggacagaaac gtggaagatt gcatgcaaatt  180
ctagaagatg aacaacctaa aaagaagggt agattaggga gccagcggc tcaatggatt  240
tcagtttata atgctaggcg acccatgaag cagaggtacc attacaatgt ggctgactca  300
aggctaagtc aacatataga aaagggtaat gatgacaggc ttacgtag gtgtgtggg   359

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<210> 44361

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C4

<400> 44361

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ggcgtccaag aggctgctgc tggcggcgct gtgcgtggtg gcggcggcgc tgctcgccgt  180
gcggtcagag gccacggcc tggatgactt cgcaagcagc gacgcgacgc cggagatgca  240
gacc                                              244

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<210> 44362

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C6

<400> 44362

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ggcttatgga tgaacactac gatgaaaacc atgctccgat gaattgctca ctttgcaaac  120
acacagtaga gcgcgagcta tgggatcttc atacaggcat acaatgcca caaaggatgc  180

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ttgcgtgcc a tactgtcag tgtgaactgc ctgcagttga tctttttgaa catcaggatc 240  
tgagtggaga tcggactgaa tattgtcaaa gttgcaggaa gtatatcaga ct 292

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<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C7

<400> 44363

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gccgccacaa tgtgtgaatt tactcgtcag gaattcattg gtggactgca gtcaattggg 180  
gtagattcaa tcgagaagtt tcgtggaaaa ttaccatcat tacgagctga gctaaaagat 240  
gacagtaa at tccgtgat at atacaacttt gcattcactt gggcaaagga aaagggtcaa 300  
aagtctctct cactggagac tgctattgga atgtggcagt tgctatttgc tgaaaggaac 360  
tggcctcttc tggatcattg gtgtcagttt ttacagggca tggacagtaa aaccatatct 420  
agagaca 427

<210> 44364  
<211> 331  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-002-Q1-K1-D5

<400> 44364

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tgatgctttc cagtcatgtt tactcattta aaagtgtttc aatggctgat cttctatctg 180  
caccttccca agtgaatggt gatgtggcat taggtggcca aganaaactc ttggccacca 240  
acactggcac tgaagtcacc aaggatgcgg atgctggact tgaatatgga aaagtatctt 300  
ccactgaact gggacaagca gtccatgata t 331

<210> 44365  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H8

<400> 44365

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cccacgcgtc cggattttga aaagaaggca cactctgata acctcgaaca aagtaaagca 60
atggagaaaa atatgattgc tgtggctagt gagattgaga ggcttcgagg agagcttgca 120
aatgctgaaa aagggggccac tgctgtcaac ccagcagcag ctgttggtaa ctctgggtat 180
gctgcgcctt atggcaattc tgcgtcaaca tatactggaa tgtatggcaa tcctgatgca 240
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gtcgccaatc cgcattacat gagtcaacct gttccctatg gacaatacga gagccagcac 360
accaatgttc aaagatgact ggctgcaaga gatagctttg actcgctgc catctcattg 420
taacaagata gtcgcagaat ccacccatgt ac 452
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<210> 44366  
 <211> 148  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-D8

<400> 44366

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gtgccccacg gtcgagtata taaagcctag gtggcacccc ttcagaacta tcgaccctat 120
tacttaacca cccacatcaa ctctctgc 148
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<210> 44367  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-E1

<400> 44367

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ctgccccaaag ctctcggggc cctcgccgcg catgattgcc tcaccgcctc tcaagagtcg 120
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cctccaccta ctttcaagaa gaagaggccg gagaagctat agtccgtgaa gaaatcaagc 180  
 ggaggggctg cgggtgtatga ggggccggcg gaggagagag agggccgggg gaagtgaacg 240  
 aaagctagag agagatgcat gatggagcat gatgatggct ggggtgat 287

<210> 44368

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-E2

<400> 44368

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 tgcggggccc aaactcctcg ggcctcggc cgacatgatt gcctcacacg ctatcaagag 120  
 tcgcctccac ctacttccaa gaggaagagg ccg 153

<210> 44369

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F5

<400> 44369

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 gcggtcagtt gaaccatggc ggactccaag gccacctcgg ctgtcaccct ccgcacccgc 120  
 aagttcatga ccaaccgtct cctggcccgt aagcaattcg tgcttgaggt gatccacccc 180  
 ggccgcgcca acgtctccaa ggcggatttg aaggagaggc ttgccaaggc gtacgaggtg 240  
 aaggacccca acaccatctt tgtcttcaag ttccgaaccc actttggatg aggaaagtcc 300  
 actggttacg gcctcaacta ctaacaacct cgaagctgcc aataagttcg agctcgaaat 360  
 acctgcttat caggaatgga ctagtacta 390

<210> 44370

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F6

<400> 44370

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ttaacgttgt ttctctgacc gtccttgtag ggggtcctaa ctggaaatac cctgccggtt 180

cctttctaag tggcggttgtt gaacatcgtg gtgtctccaa atgccatggt cttgcagagg 240

ttagccccctt tggaccttat catcatttgc acagtgtgca tggcgattgg gacgccccct 300

gggacggccc tttgaacgtg taggggggtcc tgcctttgaa cagggttttc gcttcggttg 360

gcaaagctgt tgcgcccggg g 381

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<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F7

<400> 44371

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gactcctaag gcaccgtagg tagtcacccg ttcgcaccct caagttcatg accaaccagc 120

tgctggcccc aagcaatacg cgcttgagga gatccacccc ggccgcacca acgtctacaa 180

ggcggagttg aaggacaggg ttgccaaggc ctacgaggtg aaggaccaca acaccatctt 240

tgtctacaag ttccgcaccc acttc 265

<210> 44372

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F8

<400> 44372

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ggagtgtgtg tcccggcgcc tgaaacaggc tttgcggccc cgggtgctgat cccttgccgc 120

tctgtataca aactggtctg ctactacacg gagccgggtcc cagcaccgcg aaggcgatgg 180

ttgctgtatt ccagatgccc tcgaccggtg cctataaacc cacatcatct acagctgtgc 240

caatgtactc aacgaccaca atgactccta ggag

274

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<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-G1

<400> 44373

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cctcgcctgg gccacggacg accactccct gcacaacgcc ttcagcacct acggcgaggt 180  
cctcgagtcc aagatcattc tcgatcggga gacgcacagg tcccgcggct tcggcttcgt 240  
caccttcttc acggaggaag cgatgccgaa cgccatcgag ggcataaacc gcaaggagct 300  
g 301

<210> 44374  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-G3

<400> 44374

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ctgtcaagga tgccatctcc cagattgttg gggatgccaa ggagaagaat aggaagttca 120  
ctgagactgt ggaacttcag attggtctga agaattatga tccacagaag gacaagcgtt 180  
tcagtggctc tgtaagttg ccccatatcc ctctcccaa gatgaaggtg tgcattgctt 240  
gtgatgccca gcatgttgag gaggccgaga agatgggact tgactacatg gatgttgagg 300  
ctctcaagaa aatgaacaag aacaagaagc ttgttaagag gcttgccaag aagtaccatg 360  
ctttcttggc atcagaggcc atcatcaagc agattccccg tctccttggt cctgggtctca 420  
acaag 425

<210> 44375  
<211> 313



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-001-Q1-K1-G4  
  
 <400> 44375  
  
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 ccgtccggtt cctcaattcc cgaatccggt ttaaaccggg ccccttaagg atgaactccc 120  
 gggcagttcc aaccagggtc gtcgtttgtt ccgtcgcgtt taccgagggg ttcatttccg 180  
 aagcgccgat ctttcttccc gagggccctt ggaaacaggt ggaaggcggc gtccttgcg 240  
 cgaaggggtt caaggcggcg ggtatctacc gtgggttgcg tgccaaaggc gagaagcctg 300  
 acttggcact ggt 313

<210> 44376  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-001-Q1-K1-G5  
  
 <400> 44376  
  
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 ccctacttct cgtggaagta cagccaccgg cgccaccact ccaacacggg gtccttggag 180  
 cgcgacgagg tgttcgtgcc gaggaccaag gaggcgctgc cgtggtacgc cccgtacgtg 240  
 cacggcagcc ccgcggggccg gctgggcgcac gtcgccgtgc agctcaccct gggctggccg 300  
 ctgtacctgg ccaccaacgc gtcggggcgc ccgtaccgcg gcttcgcctg ccacttcgac 360  
 ccctacggtc cgatctacgg cgaccgggag cgcgcccaga tcttcgtctc ggacgccggc 420  
 gtcgcgccg tggcgttcgg gctgtacaag ctggc 455

<210> 44377  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-001-Q1-K1-G6  
  
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 tgttgccgtt tagttcaaaa atgaacaagc aggcgacaaa tatttgagaa cggaggtagt 180  
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 gtgacagact tcttttaggc atgggaggct tctcaatgca atgagggaaa agacgggagg 300  
 aagagatcta ctgaggctga cagtaacaag atttgccact ttatttctga ctttgcagag 360  
 tttgtacaag cataaggatg ctttatgtca actcttattg tgtgaggatt ggaccagatc 420  
 caaactggta gccacagatg caggaaga 449

<210> 44378

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-G7

<400> 44378

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 tcaaggatgc catctgcgat atagatgggg atgccaaggc tacgaatagg aagttcaatg 120  
 agactgcgga acttcaaatt gtgctgaaga attatgatcc acagaaggac cagcgtttga 180  
 gtggctctgg tcagttgccc catatccctc gtcccaagat gaaggtgcgc atgcttggtg 240  
 atgcccaaca tggtgaggac gccgacaaca tgggacttga ctacatggat gttcaggctg 300  
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<210> 44379

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-001-Q1-K1-G8

<400> 44379

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 ctggcaacct ggccctctggt ggtgctgctg gtgcttcttc tttgtttttt gtgtactccc 120

tggattatgc gaggacaagg ttggccaatg atgccaaggc tgccaaggga ggaggcgata 180  
 gacaattcaa tgggtcttggt gatgtctacc gcaagacact caaatctgat ggtattgctg 240  
 ggctttaccg tggatttaac atatcttggt ttggaattat tggttatcgt ggctgtatt 300  
 tcggacttta cgattctatc aagccagttg tctcactgg cagcctncag gacaacttct 360  
 ttgccaagtt tgctcttggt tggctgatca ccaacgggtgc tgggtctgca tcttacccca 420  
 ttgatact 428

<210> 44380

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H3

<400> 44380

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 gatttgacca tgtgcgcatc ccaagggatc aaatgttgat gaggctttca caagttacaa 180  
 gggaggggaa atatgttcac tcaaagtgtc caaagcagct gttgtatggg acaatggttt 240  
 acgttcgcca gtcaattggt gcagatgctt ctaaggcttt gtcccgctgt gtttgcatg 300  
 ctgtacgata cagcgcatc agaaagcagt ttggctctca agatgggtggc cctgagactc 360  
 aggtccttaa ttacaagact caacagagca gactctttcc attgctgggt tcagcatatg 420  
 catttagatt tgtgggtgat tggctcaact ggctatat 458

<210> 44381

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H5

<400> 44381

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 gttcactcgt ttagtttgca gagcagattg gttcgaatga tactggaacg attacttggt 180

gcctcaattt gactctgtcc cgtaaaaaaa agattctcct agctgttaag gaaggatcgg 240  
 atttggcacc caccaccag cacacataat agtgggagtg accataaaca gctaggaata 300  
 tccacagttg cagatagata atggtgacga aataaatgct aattggaaac tgttggttta 360  
 aaaaatgaaa cacagcccat agacttaatt cagaagaagt tagcagatca tttgatacaa 420  
 acttgaatac ttagtcctta gatgtcttat ttttaagag 458

<210> 44382  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H6

<400> 44382

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 gttcactcgt ttagcttgca gagcctattg cttcgatcga tactggaacg attacttggc 180  
 gcctcaattt gactctgtcc cgtacaaaaa agattctcct agctgttaag gaacgatcgg 240  
 atttggcacc caccaccag cacacataat attgggagtg accataaaca gctaggaata 300  
 tccacagttg cagatagata atggcgacga aataaatgct tattggaaac tggtggttta 360  
 aaaaatgaaa cacagcccat agacttaatt cagacgaggt tagcagatca tttgatacaa 420  
 acttggatac ttaatcccta tatgt 445

<210> 44383  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H7

<400> 44383

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 cttatgagac catgtgcaca ttccatgaca tctagtctcg atgaagactt gatagattac 180  
 aagggatgtg aatgatggtc agtcaaatga gccaaagaag cttctgtctg gtacaatggg 240

ttactgatcg gcagtcaatt gttgtagatg actttaatgg ttagtaccga tctg 294

<210> 44384  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F4

<400> 44384

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gcggtcagct gaaccatggc ggactccaag gccacctcgg cggtcacat ccgtaccgcg 120  
aagttcatga ccaaccgect cctggcccgg aagcaaactt tgcttgacgt gatccacccc 180  
tgccgagctt acgtctacta ggcagagttg taagaaacgc ttgacaaggc gtactaggtg 240  
aatgaccctt gcaccatctt agtctataag ggccgcaccc act 283

<210> 44385  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C6

<400> 44385

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caacaagcgc cgttctgcga ggctctcggc agcggataac ttaacctgtc gcgcaaggat 180  
cgggggagag aaaccagcgc caacttacgt ggatcggggg tgtttggtgc tgctgcggcg 240  
gcgcagggat ggaccggaag cgcacaaagg acgcgctcga gaagcacctg gagaggtcgt 300  
cgccgtctac ttccaggggc gtcgtgtcca aggagaggga gcgcctcgtc gccgggaagc 360  
tgccgtcatc gcttggaag gcggaagtgt ctgatggtga agaatttgaa actgacagtg 420  
aagattctga tgtgagt 437

<210> 44386  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C7

<400> 44386

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caatcgagaa cgcgatcccc gtgcggcaag cgctgccgcg gcccgccgcc gcggagatcg 180  
accccgctg ggaggaggag ctgagggcca tggaggcgga gaaggcggag atcgaccggg 240  
cggcggcggc gcgggtgcgg cgggagctgt ggtgcgggct gacgtacctg gtgatccaga 300  
cggccgggtt catgcggctc accttctggg agctgtcttg ggacgtgatg gagcccatct 360  
gcttctacgt cacgtccatg tacttcatgg ccggctacgc cttcttcctc cgcaccaaga 420  
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<210> 44387

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-D1

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cgcgaaaata aaaataaagg gaggagaaca caatagatct atatccacaa cgtatgctaa 120  
ccagcgattt gcatgacgct agctccagat g 151

<210> 44388

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-D2

<400> 44388

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agagagaacc agccgagcgg agcggctgcg ctttcggagg gaggaaggag gatggagaag 120  
gctctacca agctcggcag cttcacaatc tcccgcaagg ccaagcagga gctctccgcc 180  
atcggtgacg acatctcccg tttttcgagc acggtggagg agaaggcaaa atgggtgttc 240

gagaaactca aagggcacaa gaagtcgctc cctgatctac tgcgcgagca caaccttcct 300  
ccaggtctct tccctcgtaa catcatctgc tacgagtacg acgaatcgac ctcgaagctg 360  
gtggtgcacc tgtccaagcc ctgcgaggtg agct 394

<210> 44389  
<211> 289  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-001-Q1-K1-D3

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gncgctctgc tgccgtttgc tccagctgcg gccgaccggg gccatggctg gcatcgacct 180  
caacaccgtg gaggaggagg acgaggagga ggcggaggcg ctgcctttgc ccggaccccg 240  
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<210> 44390  
<211> 375  
<212> DNA  
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<223> Clone ID: LIB3076-001-Q1-K1-D4

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ctccgctcta gatccgctgg ctccctactgc ggacgaccat acccacggct gcgatatacc 180  
tcagcaccgt agatgaggag gacaaggagg aggcagaggc gctgcctttg cccggacccg 240  
gtggccgtgg cgccgtgtgc ctggagctgt ggcacgcgtg cgccggggcccc gtcccgcgcg 300  
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gcgacgcggc gcgag 375

<210> 44391  
<211> 443

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-001-Q1-K1-D5  
  
 <400> 44391  
  
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 ggcacatggt gaccaaattt tgatcaaggc ctcagtcctg gctgagttac agaggcggat 180  
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 gcttcagcaa tatgaaaacc gctgggttaga gtacgaacag aaaatgaaag ctatggagga 300  
 aatgtggcag aagcaaatgc gttcgctgca atcgagcctt tccgtagcaa agaagagcct 360  
 tgttttggat gaaacgccta ggatgtcgga ctcacacagc gatcagagct gggaaagcaa 420  
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<210> 44392  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-001-Q1-K1-D6  
  
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 acttggcgag aacacagtcc tcttgagggg cccaagaat gccctgagg cggtgaggca 180  
 cttcggcaag gtccttgag tgccgcacag ccacaccaag ccatatgtgc gctccaaggg 240  
 aaggaagttc gagaaggctc gtggcaggag gaacagccgt gggttcaagg tttaagaaag 300  
 ttgtgggcca tcagcatagt aatcacttcc taccgagtag tagcacattt tgttgccctg 360  
 gcttggtattt tgaaagatat ttaaggattt tcgtgccttg tctactggtt actggttgag 420  
 caagaagaca atgttctttt gcacct 446

<210> 44393  
 <211> 267  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3076-001-Q1-K1-D7

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gccgctctgc tgccgcttgc tccagctgcg gccgaccggg gccatggctg gcacgcacct 180  
caacaccgtg gaggaggagg acgaggagga ggcggaggcg ctgcctttgc ccggaccggg 240  
tgcccggtggc gccgtgtgcc tggagct 267

<210> 44394

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-E1

<400> 44394

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actatgacct tcgtgctaaa gtcataagga aattggcaga tgaggtgttc tcaattgttg 180  
gacgggatcc acttattgag gtggccattg ccctagaaaa ggcagcgctg tcagacgaat 240  
atatttatcaa gaggaagctg tatccaaatg tggatttcta ctctgggcta atttataggg 300  
caatgggatt ccctacagaa ttttttctcg tgctgattgc tattcctcgc atgggtggct 360  
ggctagcgca ttggaaagag tcaactgatg atcctgacac taagattata agggcccaac 420  
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<210> 44395

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-E2

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actatgaccc tcgtgctaaa gtcataagga aattggcaga tgaggtgttc tcaattgttg 180  
gacgggatcc acttattgag gtggccattg ccctataaaa ggcagcgtg tcagacgaat 240  
attttatcaa gaggaagctg tatttaaagtg tggatttcta ctctgggtta attgataggg 300  
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<212> DNA  
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<223> Clone ID: LIB3076-001-Q1-K1-E3

<400> 44396

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tcatcaaccc ttaggctgga tttgctttcc agcaacctat gatgcctggg atgaggcctg 180  
gtggtccaat gccgaacttt atgatgccta tgggttcagca gggacagcaa ccgcaacgtc 240  
ctgctggtag gcgtgctggg tctgggtggaa tgcattcatcc catgccaatg ggtagtcagc 300  
aacagatatt ccctagaggt ggtcgtgggt accgctttgc tactggacgt ggaatgcctg 360  
atcctggcat gcataat 377

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<211> 191  
<212> DNA  
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<223> Clone ID: LIB3076-001-Q1-K1-E4

<400> 44397

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ggggttgatt ttgctagggt atgcggaatc tgcttcacac tgctactca gtcctcacca 120  
ccacagtcgt cgcgcgcaag atggtaggga ggatgccacg ttagatcacc ttgggtcaagg 180  
agggggagcc t 191

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<212> DNA  
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 <223> Clone ID: LIB3076-001-Q1-K1-E7  
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 gccagaggcg gctgacaata cctcctcggc gtccagctcc aacgcgggga atggcctctt 180  
 gtgggctgcc atcgttgccc tcttgccct gagctttctg cgctgatcct tcctcgatga 240  
 tggcttccat tgtactcccg catgtccccc tccccctac atcctcgaat gtgctgtaac 300  
 ataatgttcc ttaaatagat ataacctgtc attaacctgc acataaatac aggtcagaaa 360  
 aagtttacct tgcacaaaaa aaaaaaatta aaaataaatt tttattaaat ttataatttt 420  
 taataat 427

<210> 44399  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gagaatagca cacctaaaat gaagcaagaa caagaaactg aagagcctcc tcgttcaaag 180  
 aaaagcaaag gacttgataa aagtctagtt ggtgcaagga tcaaagtttg gtggccagat 240  
 gataagatgt tctacaatgg ggttgaggag tcatttgaat ctggttctaa aa 292

<210> 44400  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F2

<400> 44400

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gtgtcgctcg tcgaatccgc catgaagggg gccaaatcca agggcgccgc caaggccgat 180  
gccaaagctgg ctgtgaaaag caatggggcg tgcaagcccg ccaagggcag gaaggggaag 240  
gcccgcgaag accccaacaa gcctaagaag gctcccagcg ctttcttcgg gttcatg 297

<210> 44401  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C5

<400> 44401

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acttggcgag aacacagtcc tcttgagggg cccaagaat gcccgtaggg cggtgaggca 180  
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aaggaagttc gagaaggctc gtggcaggag gaacagccgt gggttcaagg ttaagaaag 300  
ttgtgggcca tcagcatagt aatcacttcc taccgagtag tagcacattt tgttgccttg 360  
gcttggaattt tgaaagatat ttaaggattt tcgtgccttg tctactgggt actgggtgag 420  
caagaagaca atgttctttt gcacctt 447

<210> 44402  
<211> 306  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-A1

<400> 44402

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gcgccggggc accggtggaa agcaaaatgc ctggatgaag aaacgaaagt atgagcttgg 180  
tcggcagcca gtcaacacca agttgtcaaa cactatgaca gcgacgaggg tacctgttcg 240

tggaggtaat gtgaaatgga gggctctttt ccttgggtact ggtaactact cattgggaag 300  
tgaacc 306

<210> 44403  
<211> 315  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-001-Q1-K1-A2

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gctcgggtatt gctcactctt gttacctagc tgcagcaact ggaggccgctc gcttttataa 180  
ggagctgcag aagaagtggc acaaactggc ataccatctg gacctctgct tgagacacca 240  
gcgctggatc gatgcatacc aaccaacttc aggagcttgc attatacgag ctgctttaat 300  
ctgccgtcct attac 315

<210> 44404  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-A3

<400> 44404

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gagctggaca agcacactcc tgggtaccaa gctccagcat atgttgaaca tcccaggcaa 180  
cagcaggtgc caccactgca gcgccaacct cgcagaccat caggacaaca attccagcta 240  
ggcgtgttgg atctactcgc gccggcccac tgctccttca gtcaggcgcg gcgcctcttc 300  
tccttcggcc aggcgagttc gcgcttcttc tccttcagcc aggtgcgttg aatctgctcg 360  
acgccgcca ctgctccttc agccaggcac ggcgcccttt tctccttctg ccaagtgagg 420  
tcgcgcgcc ct 432

<210> 44405  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-001-Q1-K1-A4  
  
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 gacctagaca gccgcaatgg ctccctaccga gatgaagcct atggccgaca tgcgcctccc 180  
 gacgggcaag tcccactgta ggacggccgt cagagccata aggggaacaa gaaagcgatt 240  
 gaacgtcgtg gagacactcg agatctacaa ctgctacgtg ctgcagcagc ggcacctcta 300  
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<210> 44406  
 <211> 233  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cacaagagaa gacacggcaa gcaaccaaga aaacaaaaac cagaccccc aaagagcagg 120  
 acaagcacac tcccgggaac caagcaccaa cataaggaga acaaccaag caacaacagg 180  
 agccaccact gcaacgcaa cccacagac caacaggaca acaagaccaa cca 233

<210> 44407  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-001-Q1-K1-A6  
  
 <400> 44407  
  
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ggacaggaga gaacgttcca ttgaaaggat gcatgagaga ggtacagata aagccctcgt 180  
 aaaagggtgc gaggatagaa ataacgatga gaggaataaa gttaaatatg cttgaacctt 240  
 cggtggaccg gacacattct tttgatgacc gattcctagg gcaaagtttg ccaccggcca 300  
 ccaactattc ccgcaagttt cgtacccca 329

<210> 44408  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-A8

<400> 44408

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 atctcatgga gacaaacttt gatagtacaa gttggaggtc tcgaatttta aggtaatat 180  
 gtgctagtat tgtcatttgc agtattgac tttgttggtg caacctaacaa ttagattgat 240  
 gttaatgagc tgctgtagac gtttgattta atctgcatgt gctatttttg tggagtttga 300  
 tatttatgtg cttacatttc gtgacttagc aataccggtt gtatgctgag atgtttgaaa 360  
 agctattacg ttttctgtga acagtttgtt agtttttagt tggatgacgt cgtgcatgcc 420  
 gtggaaagtg tgggtgtggc ttttggtgga aa 452

<210> 44409  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B2

<400> 44409

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 aaggagtggc ttattggatc catccctca cgtgctttcc tcatcaagtt tcaaattccc 180  
 atctgcgca ggaactcctc tctcaatatg gttgcaccga ggaattcatc ccttattgaa 240  
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<210> 44410  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B3

<400> 44410

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gggagccacc aggaggtgta ccacccgggc gccctcaagg cggcgttcgc tgagttcatc   180
tccacctca tcttctgtctt cgccggccag ggctccggca tggccttcag caagctgacc   240
ggcggcggcc cgacgacccc ggccggcctg atcgcgggcg cggtgggcgca cgcgttcgcg   300
ctgttcgtgg cgggtgtcggg gggcgcgaa atcttcggcg ggcacgtgaa cccggccgtg   360
accttcggcg cctttgtggg cggcaacatc acctgttcc gggggctcct gtactgggtg   420
gcgc                                                    424
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<210> 44411  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B5

<400> 44411

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cacaaagttc agacacagtg ctatgaggat gctaagctga tgaagctgtt tccggaaatc   180
ataagaacac tgtatgacca agatgtccta gctgaagata ctatagtcct ttggttccgt   240
aaaggttcaa acccgaaggg caggcaatct tttgtgaaag ctctggagcc gtttgtcaaa   300
tggctcgagg aggctgagga ggaagaataa gctcttgatt tggagattgg ccgaatgtga   360
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agttat                                                    426
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<210> 44412



<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B6

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gtttcaaata cccatctgcg cgaggaaact ctctctcaag atgggtgcac ggaggaatcc 180  
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ccgtccccag accggtcatg gtagaggcca agctcgggga gatgttggtg ggagtagttc 300  
tcaacaacct gaaatcgtcc atgccgctcg agaagaacct gtccctcagc cacctctcca 360  
tccatcttca tcacgggctg ctgcagctgc cgctctcgc cccatgagcc gtggtaagag 420  
aagcaagaag agaggtgttc gtgcgctcat c 451

<210> 44413  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B7

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aaattgatct ttatttgctg gcttgtcttg ccatacttca atggcgcagc ctatgtgtac 180  
cagaattatg tgagacctgc cttcataaag aaccagatgg tcaacatttg gtatgtccct 240  
cagaaaaaag gccttcttgg gaaatctgat gacttcttca cagcacttga taagttcatt 300  
gaagaaaatg ggactgacgc gctgaagaaa ttggcgaaca aggctggcaa gccatttaaa 360  
cagtctggga aatcatctaa ggatcagaaa gagacaaaat catcaaagga ttccaaagaa 420  
ccgaagccat caaaagatgc aaagc 445

<210> 44414  
<211> 188  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B8

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ccgagtatga cgactaatat tgtgaagcga ccgtatgtct attgctctat ctgtgtgtac 180  
tgatatga 188

<210> 44415

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C2

<400> 44415

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tttggtcagt atcagattct aaaagcgttg gagaaaccat catgctggtc ctccagttcc 180  
agctgcagcc tctgactgcg gtctccttcg cggcgctctc agacttgagc cgatcgtctg 240  
caatcccaaa cttcaacggg ctcaaagtc tcttggcgga cagtgcgcac acaaacagag 300  
cagtaacaca caggctcctc gagaagctcg gttgccgggt cctttcggtc gccttcggcg 360  
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<210> 44416

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C3

<400> 44416

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caggcagaat tgatggtgcc ctcaagggtg gacagaaacg tggaagattg catgcaaata 180

tacaagatga acaacctata aagaacgtta gattatggag cccatcggct caatggattt 240  
cagtttataa tgctaggcga cccatgaagc agaggtacca ttacaatgtg gctgactcaa 300  
ggctaagtca acatatagaa aagggtcatg atgactggct ttaccttagt tgcgtggcct 360  
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<211> 357  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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atggcatcgt cgaggggtgat gccgtcctcc tcgccgtcgc aacgggcctc tgatctcgcg 180  
cgcctagcgc aggccgncag caggccccggc ggcgggggca gcgggctggg ctccatgaac 240  
gtggaggagc tcctccgcgg catctacagc gacatgccc ccccgggcgc tgccgcgtcg 300  
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<210> 44418  
<211> 101  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G9

<400> 44418

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<210> 44419  
<211> 106  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-H10

<400> 44419  
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<210> 44420  
 <211> 230  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 aaaacccaag agccgccgca gcaaggccag ggcctcagcc tctcactcgc caacggcagt 180  
 ggcaggtctg gaatgttggc gatgtcaaac atgtcagcta atccttcaca 230

<210> 44421  
 <211> 210  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-H3

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 gagaaccgcc gtgccctccg tgagctccta ttctgctgcc ctgggtgctct ccagtacatc 180  
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<210> 44422  
 <211> 132  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-H5

<400> 44422

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<210> 44423  
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 <212> DNA  
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<223> Clone ID: LIB3076-055-Q1-K1-H6

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<210> 44424  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-H7

<400> 44424

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 gatcgcaacc ctaccaggt gcaagggtgtt gttcaagata gaaatggctg aactgttgct 180  
 acactatttg gaaaatggga tgaaagcatg cactatgtaa tgggtgattg ctttgggaaa 240  
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<210> 44425  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G7

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taccagaatc atgatgaatc taagccacca accaaatctc atttgtttca tgatgagaca 180

ctaccatctt tcttccgaag gttggcatgg tcacctgatg gatcttttct agtattgcca 240

gcaggccttt ctaaactctc ctccgaggtg attaatacag cttatgtaat gtccagggcg 300

gacctctcaa ggtctgcgat acaacttcct gtggcaagta aagctatagt ggtagtacgc 360

ttctgtcctg tactattcaa aacacgt 387

<210> 44426

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-E4

<400> 44426

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gtcgttccac tggcccaccg agacaaagcg cgccaatctc aaagggctgc catggnattg 120

gtgttgctgc gggtnggact tgttattcct cctgatgatn cttagtnagc tgtatgcang 180

gccacanncc atccacctgc ttttaaaaga tgccactgta agcccaagcc agtgagcaat 240

ggtcccaccc annagctggt gatccttcat atgaacccat ggctcttcat gtctnttgat 300

gaatataatg aggatganct gagaacttga gttgagaaat accatcattg gataccgggg 360

catcaaagta caagtttatt aaatgtgttc taaaagaatt tgcaaaccag tggcaataaa 420

aaaagctgta tgcccacta 439

<210> 44427

<211> 200

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-E5

<400> 44427

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cacttaatat ttctactgta ttttaatcat caatattacc tctgaaaatt gtatgcaatt 180  
tacctgtagt taactacata 200

<210> 44428  
<211> 231  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-E6

<400> 44428

tataatacat atgaatgatt ataccaagct aaaatgacaa ataagtagaa ataactatag 60  
agatgggttat taatatgagt atgacaatct aaaactgaac tgttggttata cctatccttt 120  
cagaattcag ggccggcaca atgtgctacc ggctggtcac tgtggctccg caggaggga 180  
tgatggaggg aatcccttgt ggggtttgcc ccaagattca tgaagtctct c 231

<210> 44429  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-E9

<400> 44429

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aaaggaataa tatttccagt ctccaggaaa aaaatgacga aatcgttgct cgtttgaatt 120  
tactggatcg tgaaattata aatgatgact caagattcac atctgaagct gcacaaatga 180  
aagatgagtt ggagaaaaag aagaatagtt tgatttctgc tgaaaagcag gcagatgatt 240  
ttcttaagaa atcggagaag aggctccaag atgtaacact taaagttgaa gaagaaactc 300  
aggcagctgc taaggagctg ctggagcttc ttgattccat ggctgaacat aaagagttca 360  
tggaacaac aattgctc 378

<210> 44430  
<211> 245  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F10

<400> 44430

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atctgggtgt ttgtatgtat ggacaagaca aaactagcac tgcagatggt atggtaaggc 180

gtaagcaaata acaatatgac attgggtccag ttccaggaat gaatggaata tgacattggt 240

ccgag 245

<210> 44431

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-F11

<400> 44431

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tgcacaaggg aggtgggtgtt tttaggatcc ttgtcctact gtgttgngta aaccaccggg 120

tgtagttagc tgtatctggt tgtttgtatg tatggacaag acaaaaactag cactgcagat 180

ggtatggtaa ggcgtaagca aatacaatat gacattgggtc cagttccagg aatgaatgga 240

atatgacatt ggtccgagaa aaatatatat atttattatt aaatttttat ttttaatttt 300

tttttt 306

<210> 44432

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F12

<400> 44432

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gctttatcat tttctccttg gcggttcttt atgttgtctc aagacgtatt ggtctattga 120

cgctgcaaag gaaactggcc gatgccatca gatccgggtc attatcagcc gatgacatcg 180



tagcgaatgc ccaacgtgga cctgccccag caaatgttcc tgctcccatc tacgatgaac 240  
 tgtgattcgt ttgtcctctg tattgttaag gttagttttg catgtggcta ttgggatttt 300  
 gtccagtgtg tgggtggcat gtaccgatct gcgattcatt aaaataattt caaatgaaaa 360  
 atagttaact 370

<210> 44433  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F4

<400> 44433

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 gattggctca ctgaaaaaat gcgtacaaat aacttcaccg tatcagctat gcacgggtgac 180  
 atgccccaac aagaaaggga tgccattatg ggtgagttca ggtctggcgc aactcgtgtg 240  
 ctaataacta cagatgtttg ggctcgagga ctggacgttc agcaggtttc acttgtcata 300  
 aattatgatc tcccaaataa tcgtgagctt tacatccatc gcattgg 347

<210> 44434  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F5

<400> 44434

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 gtcgacgact gcccgcgctt cccacgggc cgcgtcgtct gggagggtgcg cgtggacggt 120  
 accgtcgcgc tcaagtggtc ccgcggcctg gtgctggccg tgacctcgtc gacgtctttc 180  
 gcgggggtca cggtgcgga ggacgaccgc ggcaccggcc agtcgtggac gccgaccaac 240  
 gtcaccgcgc ccctggacgc cgccatcgtg gggttccgcg acctctgtct gcaggcggac 300  
 tacgcggggg cggtatccgt cg 322

<210> 44435  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F6

<400> 44435

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ggcgccaagc gccaccgcaa ggtgctgctg gacaacatcc agggcatcac caagccggcg 120  
atccgcaggt tggcgaggag gggcgccgctc aagcgcatct ccgggctcat ctacgaggag 180  
accgcggcg tgctcaagat ctctctcgag aacgtcatcc ggcacgccgt cacctacacc 240  
gagcacgccc gccgcaagac tgtgaccgcc atggacgttg tctacgctct caagcgccag 300  
ggcgcacccc tctacggttt cggcggttag gtcgcccctc tcccggtggc gaattacatg 360  
gtggcggtgg cggtcgtgtt 380

<210> 44436  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F7

<400> 44436

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taccagaatc atgatgaatc taagccacca accaaatctc atttgtttca tgatgagaca 180  
ctaccatctt tcttccgaag gttggcatgg tcacctgatg gatcttttct agtattgcc 240  
gcaggccttt ctaaacactc ctccgaggtg attaatacag cttatgtaat gtccaggcgt 300  
gacctctcaa ggcctgcgat acaactccct ggggcaagta aagctatagt ggtagtacgc 360  
ttctgccctg tactattcaa accacgtggg tctaac 396

<210> 44437  
<211> 101  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F9

<400> 44437

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atataagggtg taatcacttt ttgctctata cacggaggac t 101

<210> 44438

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G1

<400> 44438

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ccgctgcccc tcagtcctca gttcctcacc tagcggtagc gtgcgcgcgg gagacgtaga 120  
tggcggcttc ggaggcggca gcggcggcgg caacaccggt gacgccgaca gaggggacgg 180  
tgatcgcgat ccacagcctg gaggagtgga gcatccagat cgaggaggcc aacagcgcca 240  
agaagctggt ggtgattgac ttactgcaa catggtgtcc tccgtgccgc gccatggctc 300  
caatTTTTgc tgatatggcc aagaagtcac caaatgttgt tttcctgaaa gttgatgtcg 360  
atgaaatgaa gaccattgct gag 383

<210> 44439

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-G10

<400> 44439

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tggtggtttt aggatggcgt gtcctactgt gttgtgtaga ccaccgggtg tagttgactg 120  
tatctggttg tttgtatgta tggacaagac aaaactagca ctgcagatgg tatggtaagg 180  
cgtaagcaaa tacaatatga cattggtcca gttccaggaa tgaatggaat atgacattgg 240  
tccgagaaaa aaaaatttaa tatttataat ttttttaata ataatttata atatttattt 300  
aatttgtttg ggggggtgtg ttttgnatt ttaattatta naattttttt gttttttttt 360

tttttaatta taatttttt

379

<210> 44440

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G11

<400> 44440

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gccattgccca cccccaaagt gtaagcacia ccaacagcaa agaagagacg acgtcgatcg 120

atcgatctca gcaaccaagc aggtcgtagg taggcatggc ggccgagaaa gagggcgcg 180

tggtgaccaa agggccacgac taggggatga aagcggcggc ggcgctgctg gaagagtctg 240

ggctcccgcc ggggctgctg ccgctggaag acgtgacgga ggtgggggttc gtgcccccca 300

ccggctactt ctggctcgcg cagcgcaaga aagtggagca ccggttccgc aagatctgca 360

agcaggtgag ctacgacgtc cagatcgccg gatacgttcg ggccaggg 408

<210> 44441

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G3

<400> 44441

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gtggcaagag ggttgtggtt agtaatttat tcgatcagca accaagctcc aatactggga 120

gcctgcaacg acaacgtgtg gcagacatgg aactggacgc ttcagctcct gagtcaccga 180

ctagtgtggt aactgggaag aagctgtcct cccatgccgc agaggaagcg aagacatggc 240

accctgtggt gaccggtacg cggcagttta tgcactgtct tctcaaggc gaggaggtgt 300

tctccgtgca ttctgcttgc cgaccctga gctacggtga tggaagcatg ccttgcacca 360

cggtgtggaa cgc 373

<210> 44442

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G4

<400> 44442

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aaaaccgggc gaccacgcg tgcgatcaac aattctttgt tgctgttgac aaataggagt   60
tcacgttcga tacacttttt gagggttatg agtacactca ccatcaccca agctcttatt  120
ttctgcaata ctaacagaaa cgtggattgg ctactgaaa aaatgcgtac aaataacttc  180
accgtatcat ctatgcaccg tgacatgcc caacaagaaa gggatgccat tatgggtgag  240
ttcaggtctg gcgcaactcg cgtgctaata actacacatg tttgggtctt aggactggac  300
gttcagcaag tttcacttgt cataaaatat gatctcccaa ataatcgtga gctttacata  360
catcgcatcg gtcgttctgg gtcgtttggg c                                391

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<210> 44443

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G5

<400> 44443

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gtttatgatt cactgagcgt gaccaagct cttattttct gcaatactca cataaacgtg  120
gcctggctca ctaaaaaaat gcgcacacat aacctcaccg tatcatctat gcacctttac  180
atgccgcatac aagaaagggg tgacaacatg ggtgacttca agtct                    225

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<210> 44444

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-E3

<400> 44444

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ggactgagct gaagatggca tagctattga aggaccagag ttcagagaga aaagcctagc  120
tgaactcctt gaactgggtc caaaaataca ggtaatggcc cgatcatcac cacttgacaa  180

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gcatacactt gtaaagcatt tgcgcacaac attcaatgat gttgttgctg ttactggtga 240  
 tggaacaaat gatgctcctg cattgcatga agcagatatt ggacttgcaa tgggcattgc 300  
 tgggactgag gtggcaaaag agagcgctga tgttataatt ctggacgaca acttctccac 360  
 gattgtaact tgtgccaagt ggggacgac tgtttacatc aatattcaaa aagttgtgca 420  
 gtttcagctg actgtcaat 439

<210> 44445  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-055-Q1-K1-G6

<400> 44445

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 caagctatct cccgaagccg gggcgcggtt gggggcctat acgcgcctcg cgcttggcgg 120  
 nctggaacat aagctgcacg tcgtggagcg caccgtccgc cagcttgttt gcggtgaggg 180  
 gatcgccaat tgcagctcgc gagactccgt ctggcgattc caccagaatg atcagc 236

<210> 44446  
 <211> 249  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 cagactacat cggatatcaac gaggtaacat tcagctacat taaggggcag aagctgggtcc 180  
 agctggcagc ccagtagcta ctctgccgat aggcacgttc aatatgtatt tgcacgcaat 240  
 ggcaaaccg 249

<210> 44447  
 <211> 148  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-C5

<400> 44447

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tggtacaat gcgaattttc aggctaatgc aactaaaag tttgaaacgg tgcacattta 120  
ctacttcaag tttgatgggc tagaggat 148

<210> 44448

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-C6

<400> 44448

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gccaaaggac catatatcat aattggaaag gagcaaggca agctgtaggg aagatcactg 120  
cacaattatt tttatattat cgctcctata acgttttgag aatctgtggg taagttgtat 180  
tgtaaagcta gttagtagca aaattgttta taaggctatt tgagctctta tatcttcata 240  
cacatttaat ttttcgcagc ttgtgaacat tgggaagccc aattaaatat ttgaatctgc 300  
atagagtatt ggaaatagtc aatactgggtg aacttttgaa tgattcagat tttgagactc 360  
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<210> 44449

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-C7

<400> 44449

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acatgtaatg gcagttcgag tctgactcca agttcgaagg aggctttgct aaagaacata 120  
tcatcagga taacagacta cacaattggg tctttaatgt tttgcttgat ggcacagaag 180  
tagcttacta tgttgatggg cagagaaagg ttgacgggta tattaaggat caaagaatct 240

actgtaatca ctgcaacaaa gtggtttagcc catcagcatt tgaagctcat gcgggtgagg 300  
 gatcaaggcg caaaccgat gatatacatat tcacatcaaa cggagtatca ttgcatgagc 360  
 tggcaatgaa aatatcaaag gatatggaac tgtcagaacg tgagactgat gatct 415

<210> 44450  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-C9

<400> 44450

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 ccateccctc tcaccccatc cccccccccc cctcccatcc cctctttctc cccccacct 240  
 cccatccccc ccccttcccc tcatcacccc cccccctac ccccatcac ctccccact 300  
 cctccccacc tccccccccc cccccccct ctccccctcc atccccaccc ctcccccc 358

<210> 44451  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D10

<400> 44451

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 ccagcttcag aagaagtttg aggccgttgt tgctgacgaa gagaagtact tgatggagaa 180  
 ggttgaggg ttgtttgcag aatcaaacgc tcgaaagaaa aatatggttc aagatgacat 240  
 atgcagcctc aataggactg tttctgagcg ttcgaacaat ttacaaaccg aaactaccaa 300  
 gctgcatgat ttacatctt ctatgaaaga gcaatgggaa ggctacatga agaaaactga 360  
 agaggcattc cagcaaatg tatcatctat tgaacagaaa a 401

<210> 44452



<211> 295  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-055-Q1-K1-D11  
  
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 ctcaccttta ggtctggggtt ttggacgtga gttgataaag ctgacctata cattttatag 240  
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<210> 44453  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-055-Q1-K1-D12  
  
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 aggagcccgc gacagagaag gcggagaagg ctccggcggg gaagaagccc aaggccgaga 180  
 agcgctccc ggcgggcaag tccgccggtg aggagggcgg cgagggcaag aaggggaaaa 240  
 agaaagcgaa gaagtccgtg gagacctaca agatctacat cttcaagggt ctgaagcaag 300  
 tgcaccccga catcggtatc tcgtccaagg ccatgtccat catgaactcc ttcatcaacg 360  
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<210> 44454  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-055-Q1-K1-D2  
  
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atgacgtgta ctggacaaag atcgcgtagg gaatagaagg accaaaacttc atagagaaaa 120  
gcctagcgtg aactctattg aactgcttcc aaaactacag ggaatggccc catcataagc 180  
acttgacgag catgcactta gtaagcattt gcgcacaaca ttcaatgatg ttgctgctga 240  
tactggtgac ggaacaaatg atgcttccgc attgtataaa acatatattg aac 293

<210> 44455  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D3

<400> 44455

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gaactccttg aactggttcc aaaaatacag gtaatggccc gatcatcacc acttgacaag 180  
catacacttg taaagcattt gcgcacaaca ttcaatgatg ttgttgctgt tactggtgat 240  
ggaacaaatg atgctcctgc attgcatgaa gcagatattg gacttgcaat gggcattgct 300  
gggactgagg tggcaaaaga gagcgctgat gttataattc tggacgacaa cttctccacg 360  
attgtaactg ttgccaagtg gggacgatct gtttacatca atattcaaaa gttgtgcagt 420  
ttcagctgac tgtcaatgta gtg 443

<210> 44456  
<211> 216  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-D4

<400> 44456

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gcttaacttc caatacaaga ttccataata catgtaatag ccctatcatt tacactatgt 180  
aagcatacac atacaatata tttgtgcaca acattc 216

<210> 44457  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D5

<400> 44457

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tgaaatacgg ctcaattatt atttctactg gatgtgaagc atcgagatta cctgagaaaa 180  
ttggagggaa attacctgga gttcactaca tacgggatgt tgctgatgct gatgctctag 240  
tattctcatt gggaagtgc aagaagggtg tggttattgg tgggggctat attggcatgg 300  
aagtagctgc agcagcttgt ggctggaatc ttgacacaac tattatattc ccagaggacc 360  
acattatgcc aagattatth acaccctcgc ttgctaagaa gtat 404

<210> 44458  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D6

<400> 44458

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aggagaagag aaaaattaaa aaataaagta ataaaaaat aaaaataaat aaaaataacg 120  
cttttttttt tttaaaatta tttttttcat ttgtgtgatt taaaactttt ttttttttta 180  
atataaaatt tattattttt tccgttcgtt taaaatttta tatctttata tataaaaaaa 240  
tcatttcctt tcttatatth ttgcatact tgtttattac tcctatt 287

<210> 44459  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D7

<400> 44459

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 tcatcaggga taacagacta cacacattgg tctttaatgt tttgcttgat ggcacagaag 180  
 tagcttacta tgttgatggg cagagaaagg ttgacgggta tattaaggat caaagaatct 240  
 actgtaatca ctgcaacaaa gtggtttagcc catcaacatt tgaagctcat gcgggtgagg 300  
 gatcaaggcg caaacggtat gataacatat tcacatcaaa cggagtatca ttgcatgagc 360  
 tggcaatgaa catatcaaaa gatatggaac t 391

<210> 44460  
 <211> 225  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D8

<400> 44460  
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 tgcattcata ctggtgcgga agccacaaca aatcaaaaag ttacatacat aacaactatt 120  
 tcatctccag tacaagtttc cagacgttgt tctttactca tataattgct tgaataaaac 180  
 acttacacta ctttttttca gtatcaaacg ctctaaatga tatat 225

<210> 44461  
 <211> 271  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-055-Q1-K1-E10

<400> 44461  
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 attcacatgt cattgttact cctaaagatt ttggaaaaat caaagattga aactaaaag 120  
 caactcttcc agctttaaaa gaagtttttag gccgttggtg ctgacaaaaa gaagtacttt 180  
 attggaaaat gttgcaagggt tgttttcaaa atcaaacgct cgaaagaaaa aaatggttca 240  
 agaatacata tgcagcctta ataggactgt t 271

<210> 44462  
<211> 293  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-055-Q1-K1-E11

<400> 44462

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atggggatgg tgaggggaagg atctcttcaa aatcattgtc ccgcatctta gttgtcgttc 120  
ttatagatag tgtaagtat gttacgtact cttgtgtcct gccgttcaaa agccatagcc 180  
ctcaccttta ggtctggggt ttggacgtga gttgataaag ctgacctata cattttatag 240  
cagaagaggt gtaagacagc tgcctttgtt catttattca agttttgtgt gct 293

<210> 44463  
<211> 308  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-055-Q1-K1-E12

<400> 44463

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agggtggcga tttttatggg gagggaggga gtctcttcaa aatcattgtc ccgcatctta 120  
gttgtcgttc ttatagatag tgtaagtat gttacgtact cttgtgtcct gccgttcaaa 180  
agccataacc ctcaccttta ggtctggggt ttggacgtta gttgataaag ctgacctata 240  
cattttatag cagaagaggt gttaaacacc tgcctttgtt catttattta agttttttgt 300  
tctcccc 308

<210> 44464  
<211> 370  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-055-Q1-K1-E2

<400> 44464

gaccacgcgt gcgtgagaat ggtcacagga gataacataa attcagctta gcaattgctc 60  
ggaatgtgta gtctggctga atatggcata gctatggaag gaccagagtt canagagaaa 120  
agcctagctg aactccttga actgggtcca aaaatacagg taatggcccg atcatcacca 180  
cttgacaagc atacacttgt aaagcatttg cgcacaacat tcaatgatgt tgttgctgtt 240  
actggtgatg gaacaaatga tgctcctgca ttgcatgaag cagatattgg acttgcaatg 300  
ggcattgctt tgactgatgt ggcaaaagag aacgcttatg ttataattct ggacgacaac 360  
ttctccacga 370

<210> 44465  
<211> 366  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-055-Q1-K1-C3

<400> 44465

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cgacgacgag cagccacctg gggaagagca ggtagcagga aatggcgggc ttcctgaggt 120  
caaaatgttc accagttgga cgtactttga tgggaagcct tggaaatagt ttgtttgggg 180  
ctgccaaactc ttctgttggg gcaataacaa ggctttctca ttgcgatgct atcagtcagc 240  
aaatcagaac attcatccag atgaggacta acctgaaggt ggtcgataac tccggggcca 300  
agcgggtgat gtgcatccag tccctgaggg ggaagaaagg agcaaggctc ggngacatga 360  
tcatcg 366

<210> 44466  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-H5

<400> 44466

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ctgcctccta cgacgccggc ggccccggcc gccgcgaggg cgaccaaggc ggcgggcgcc 120

gtgcccgcgg agaagcccag gtccaaggcc aggaagcccg gcgccgtgct gccggtggcg 180  
acgttcgcgg cgccggaggc gttcgagccg gcggggagca tcgccgcggc gcggcgaggag 240  
cacgccgcgc aggcgcaggc gcagcgcaag tcgcggatcg cgcactacgg ccgcaccgcg 300  
tccttctccc ggggtggaggg ccgagtcggc gccacggcca cggccacggc cgccgccgag 360  
ccggccgttc cagcctcccc 380

<210> 44467  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-H6

<400> 44467

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ggcttctctg ctgcctccta cgacgccggc ggccccggcc gccgcgaggg cgccaaggc 120  
ggcgggcgcc gtgcccgcgg agaagcccag gtccaaggcc aggaagcccg gcgccgtgct 180  
gccggtggcg acgttcgcgg cgccggaggc gttcgagccg gcggggagca tcgccgcggc 240  
gcggcgaggag cacgccgcgc acgcgcaggc gcagcgcaag tcgcgggtcg cgcactacgg 300  
ccgcaccgcg tccttcggcc cggggtcgat ggccgagtcg gcgccacggg cacggtcagg 360  
gccgc 365

<210> 44468  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-A2

<400> 44468

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ttgtctcggg tgtctgttac attgccacgt tctgtttctc gggctctcta ttactcggg 120  
tactccatc tggacatgac tgcggactca acctgttctt cattgtcttc acgttgattc 180  
ttgtttttgc gtttgctatt gttgccctgc acccaaagat caatggaagc ttgttgacctg 240  
catcagttat tggatatgtac tgtacatata tgtgctacag tggactctcc agtgagccaa 300

gggattacga atgcaatggg cttcacaatc actcaaaagc tgtgtcaact tgtagcccta 360  
cattgggac 369

<210> 44469  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-A3

<400> 44469

cccacgcgtc cggctccggc tcaaggacga gaagctggag gcgttccggg ggcgcgcggt 60  
gagcatggac gtcgaggcgg cgcgtctccg gagccggatc cacgagctgg agggccgtct 120  
agcgcggcac gagaagcaca gcgccgcgct ggaggccctg ctccaggaca gggaaagcga 180  
gaacagagca ctcgaggagc agctggagac gctccaagcg caggcgcttg gtgtggagat 240  
ctgcacgccg gcccgaggca gtggccaaga cgacgggctc gacgaccagt gcatcgctg 300  
ttcgcccgtg gatgccgtcc agagaacaat gtcacccgga agctcgcg 348

<210> 44470  
<211> 372  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-055-Q1-K1-A4

<400> 44470

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cttaagggca gtcacgcga tatgtgacat gtttcttgca ctagataagg atacaaacgg 120  
tacactgagc aaacaagaac tcaaggaata tgcagatggc acattgactg agattttcat 180  
tgaaagagtt tttgatgagc atgtccgccg gagcaaagtt ggaggtggaa acagtcgcga 240  
gatggacttc gaaagctttc ttgattttgt tttggctcta gaaaacaaag ataccctga 300  
aagcttgaca tattttattta gatgcctnga tcttaatgga aaggggttcc ttacaactgc 360  
agacatccac ac 372

<210> 44471  
<211> 395



<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-055-Q1-K1-A5  
  
 <400> 44471  
  
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 cggcgacgcc ggccggcgcc gccgacgcca gaagtcgctg aggcagtctc ccgcgaggac 120  
 tccgccgcgg tcgattcatg ttgcgggtggc ccgcgaggcg gcggatgtgg tggatgaagga 180  
 ggtgtcgccg ccgttgcgcg gggcaaagcc ctcaacgctg gcggaggccg tggaggcgcc 240  
 gcacgatgag gtcgccgagg atgcggatgt ggcggcgaag gacgcgtcgc tgccgtccca 300  
 tgaggatgaag gcttcaacgc cgccgccggc tgtggcggtt gcngatgagg cggtcacaga 360  
 cgctagcccc gtcgacgagc tcagggattt gactg 395

<210> 44472  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-055-Q1-K1-A6  
  
 <400> 44472  
  
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 aatcgcaaag agggccgtct catccgagtt aaggaagcca tggagcacia ggaggctggg 120  
 tgccaggccc ccgagggacc catcctctgc atcaataact gtggcttctt cggcagcgcg 180  
 gcgaccatga acatgtgctc taagtgccac aaggagatga taacgaagca agatcaggcc 240  
 aagctggctg cctcctctat cgacagcatc gtgaacggca gcgacgccgt catggagccg 300  
 gttgttgctg gcagcaaacac ggtagtagc 329

<210> 44473  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-055-Q1-K1-A7  
  
 <400> 44473

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cccacgcgtc cggaagcgg aagcgaggcg cccgtcatgc tctgcctcag cctggtcgcg 60
ccaccaccga tggccccgc cgcccgggcg cggcgggcggc ggcacccgac ttctgtgacc 120
cgccgcggcc aaacctctgc cgccctcccg tgccactgtg gacggcggca cgtcatcggt 180
gcctcctcgg ctgccgtctt ccttcctttc ctgcgccctc cttctctggc cgctccgccc 240
gtcgaccccg acgtgggtgt ccagcgagtg caccgcgtga ggcgggactg gtatgaggag 300
ttctatg 307

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<210> 44474
<211> 366
<212> DNA
<213> Zea mays

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<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-A8

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<400> 44474
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ggatcagagg agatatgcta ctcatggata agatttgaag aggagaatgg caccttggat 180
gattatgatc ttgctgtaaa gaaggttacc cctcggctaa aggagcttat gacattcaag 240
tctcaagagg aggctaaagt tgaggcttac cctaacctca atgataattc taatgcaaat 300
gattcctctc agaaaagaaa acccagtnac aataaacagc agccccctgc taaagaaaga 360
aaagag 366

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<210> 44475
<211> 359
<212> DNA
<213> Zea mays

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<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-A9

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<400> 44475
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ctacctggtg ggctgttctg aggacaccaa cctctgtgcc atccacgcca agcgcgtcac 120
catcatgccc aaggacatcc agctcgcgcg ccgcatccgc ggcgagcgcg cctaggcggt 180

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tcggttgagg cgctgctcg ctactgctgg aggtgcttag tttagcccg catggttgtg 240  
 ttataggtgt gcgttgtttt caagagtagg cttcttgcta tgtgctgatg ttaacggagg 300  
 attatgatta gcagttctga aaaaatgcaa tggatgtgat ctgctctatc taananaaa 359

<210> 44476  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-055-Q1-K1-B11  
 <400> 44476

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 gccgattgct aactagcta atcagcctac tctgctttct ttgaggggtc tgtcaagttc 120  
 agaccttga gattaatttg gaagagttgg gctcctctcc gctgcaagtt ctttctttgg 180  
 cttgccagga acaaccgatg ttggactatg gatcggcttg ccaaacgagg ctttctcac 240  
 ccagattcat gtcccttggt tgaccaagcc ggtgagaccc ttcagcacat tctaattggc 300  
 tatatcttct ctagacaaat ctgggccttg attttgcaat ccttgcatct agaggccatt 360  
 acgcccaatg ggggcagag 379

<210> 44477  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-055-Q1-K1-B2  
 <400> 44477

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 cttatgagaa ggagcgtctt gatgctgaac tgaagctggg tggtagtat gggctgaggt 180  
 gcaagcgtga gctttggagg gtccagtatg cactgagcag gatccgtaat gctgcaaggc 240  
 acttgctcac ccttgacgag aagaaccccc gtcgtatctt tgaggggtgag gcacttcttc 300  
 gccgcatgaa ccgctatggg ctgcttgctg agggtcagaa caagctngat tatgttc 357

<210> 44478  
<211> 367  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-055-Q1-K1-B3

<400> 44478

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cagactacat cggatatcaac gagtacacat ccagctacat gaaggggcag aagctgggtcc 180  
agctggcgcc cagtagctac tctgccgatt ggcagggttca atatgttttt gcacgcaatg 240  
gcaaaccgat tggaccacag gcgaattcta agtgggtcta catcgccccg acggggatgt 300  
acgggtgcgt gaactacctc aaggagaagt atgggaatcc aacgatctac ataacggaga 360  
acggaat 367

<210> 44479  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-B6

<400> 44479

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actttaccct aaggccgagg atctcaacaa gttgtcagct cttcacatga acatcaacac 120  
cgccaagggc cttcatgact tgctcaagac caacctcttc cccaagggtca ccatcaagat 180  
gcttgtgggt ggagctgggt acctgaatct tactaaagat gtgaacaccc tcttgaatga 240  
aatgcatatt cataacccaa cttcaa 266

<210> 44480  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-B9

<400> 44480

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 tgccgctgct gctggctctc tccgtctcgt cctcgtcctc gtcgtcggct gctgccacgc 120  
 tcgccgtcag cgtccgccc cactgcctg ttcctctcc tcgtcatgct caagacgccg 180  
 aaggcatgct catcaacggc aacttcgaga cggcgccgcg gaagctgaac aagaccctga 240  
 tcgtggggcg cactcgtcgt cgggggtgga cgggtgcaagg ccacgtggag tacgtctcgg 300  
 gcgggtcccca gcccgggggc atgttcttcg cgggtgccga cggcgtgcac gcgcttgccg 360  
 ctgcgagccg cgcgtccgcg tcgcagaacg tga 393

<210> 44481  
 <211> 337  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-C1

<400> 44481

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 gggaaggagc accagccatg gtgcacgtca acttctaccg caactatggt aagacgttca 120  
 agaaaccaag gcgtccttat gagaaggagc gtcttgatgc tgaactgaag ctggttggtg 180  
 agtatgggct gaggtgcaag cgtgagcttt ggagggtcca gtatgcactg agcaggatcc 240  
 gtaatgctgc aaggcacttg ctcacccttg acgagaagaa ccccgctcgt atctttgagg 300  
 gtgaggcact tcttcgccgc atgaaccgct atgggct 337

<210> 44482  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-055-Q1-K1-C2

<400> 44482

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 tcggttctgc aatacggtag aaaacttca agactagtta atttcgggtt cctagaacta 120  
 tacaacaaa gctaattggaa atatggacat ttggtgggaa cctgcaactg aatgaatgaa 180  
 caaccattca catgctacct aatttctggc ttgctacagt tctatcatag ctcggagagt 240

atagcagggga tatagtgaga tagctcatcg gtgagtgact ggaacccatt gacaagttgg 300  
 gtgtggaatt cctggtcttc ttccctatc aatctgaaat gcacacggat tggacgcttg 360  
 caaa 364

<210> 44483  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F12

<400> 44483

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 caattacaat tgagaagtag gagataacaa tgaaaatttc aacacaaaag tcaatgaaat 120  
 caacaggggg aactcagaat tcaatcgtca tacagaacat aggtttttta aatgataatt 180  
 attgagaaat taagtaaaca gtcgccatct tgatcaccac catcaaaatc actgtcttct 240  
 tcgtttctcc attttcatgg tcacaaagac agtgcaatat ct 282

<210> 44484  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F2

<400> 44484

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 ggtctcgcct ggggcacggg ctaccactcc ctccataacg ccttcagcac gtactgccac 180  
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 tcgtcacctt ctccactgt 259

<210> 44485  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F3

<400> 44485

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gggcggggcg ggggcgatct gatgccggcg cggcggtgat ggcagcgccg tccggcggtg 180

ggggcgggcg tgcgggggag ggctcctcct cggccgcccgc agctatgacg atcggggccc 240

acgggggttg accaagtcac agaagcgatg tggcagatga atttaggaga tgccatggga 300

ctggggccat accaagagcg tgttggtgat ccagactgta actattacat gaggactggc 360

atgtgcaggt ttgggatgac ct 382

<210> 44486

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F4

<400> 44486

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gcggggcggg ggcgatctga tgccggcgcg gcggtgatgg cagcgccgtc cgggggtggg 180

ggcgcggtg cgggggaggg ctctcctcc gtgcgcgcag cgatgacgat cggggcccac 240

ggggtgggcc acgtcacaga aggcattgtg cacattaagt tacgggatgg catgggactg 300

gggccatcct cagagccgtg 320

<210> 44487

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F7

<400> 44487

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ggcgagaaca gcggcgcggg cgcgggcgcg ggcgaggcg agttctacct gcggtactac 120

gtggggcaca agggcaagtt cgggcacgag ttctcgagt tcgagttccg ccccgacggc 180

aagctccgct acgccaacaa ctccaactac aagaacgaca ccatgatccg caaggaggtc 240  
 ttcgtctccc cctccgtcct ccgcgaggcc aggaggatca tccaggagtc ggatatcatg 300  
 aaggaggacg acagcaactg gcccgagccc gaccgcatcc gccgacatga gctcgagatc 360  
 gtcatgggca acgagcacat ttcattcacc ac 392

<210> 44488  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F8

<400> 44488

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 cctagtgate tacagaaaca ggttgttttt gtggatttag cccaatctt ctcccagatg 180  
 gcggatgcta tattgagaag acaaatacaa ctcaactgtt atactataag tgaggctata 240  
 gatggtgctg aaggttttca gaacacacac caacctcagc attatgaatc cgcaaaattt 300  
 agtattgagc aggtcgtggt tattttggaa aagatacgca tcatgtggga gtcgatactg 360  
 ccaagatcaa ttacaggaa aagtatgtgc aatgtcc 397

<210> 44489  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G1

<400> 44489

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 agatagggtt cctcaccaac cgacatgttg ctggtgactt ggactacca aaccagaaga 180  
 tgtatcacc attgccacc aaccttgggc ctggtgttta tcttgagct gtcgaaagg 240  
 caacatctt catcacagat gatgtttggt atggaatcta tgctggaaca aaccagaga 300  
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tcacaactac agttaagggt

380

<210> 44490  
<211> 186  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G3

<400> 44490

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agggcagcgg cattcggaag cgggtgggcgc aataagtgcg tgggcctctt ggcgacctgc 120  
gcgagcaatc gtctcaccac gaaactgcgc atctaggcca aagtttccat cgcggtttgt 180  
ggggca 186

<210> 44491  
<211> 313  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G6

<400> 44491

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gaggagaagg ggacctgttc aaagctccag aagccatcat cgaggaaccg ctgctcctga 120  
actgtctgtc tgattctgtt catttgttgt tgtgtaggct gggcttgtgc caagcttgaa 180  
tcctcttggt aaggagtttt tcaatgctgc tgatgacaag cggaaggaag tcctctctaa 240  
aatagaagag gatgttgcta agctcagcgg ttctgcagcc aactaagaag ctacaagtga 300  
atgccgagga gag 313

<210> 44492  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G7

<400> 44492

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agaatatgac ctgggaggag aaggggacct gttcaaagct ccagaagcca tcatcgagga 120  
accgctgctc ctgaactgtc tgtctgattc tgttcatttg ttgttggtga ggctgggctt 180  
gtgccaagct tgaatcctct tgtgaaggag tttttcaatg ctgctgatga caagcgggag 240  
gaagtcctct ctaaaataga agaggatggt gctaagctca acggt 285

<210> 44493  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G8

<400> 44493

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ccactcggtc gagctgtata tagagaggct gcttaaaacc ccgccccaaa cctggcaaca 180  
gaggctggga ggcaaatagc ccgtatctgc cagtgtactt gcttgcgcca tagagggtccc 240  
tgcgaaacacc ggagggcggc gtagaagacg aggtgtacat gagtgggagg aacactgggc 300  
gttccttgac ctgaataccg tggaatcggc gagggagcgc gggttggtatt ggtaggcacc 360  
aaggaggagg ttggtgacac tag 383

<210> 44494  
<211> 194  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C8

<400> 44494

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ttatcataca ctatcattca acctcagagt acttctatac tgtcacatat tttcatttca 180  
ctggccattg tttt 194

<210> 44495  
<211> 217

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-D1

<400> 44495

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 gcacatcagg catacccgta tccagttcag aaaggcatgc atgtagactg tcacggcttg 180  
 accatggaaa tcatgctgac tgtgaaatgc ccggtga 217

<210> 44496  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-D2

<400> 44496

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 gcgtgcatta cacatctcct gggaacctgg acaacgggat gcttcgggttc tatctgacac 180  
 caatgagaag ctccagaact gcgaacaggg ggaggaggag aagtccgcgc ttgtttgcgc 240  
 gaggactttt cggtttcata taagtggctc aagtagagcg ttagcccatg ccatgcgttt 300  
 ttttaaagat ggcagcagca gaagcaactt ttctttggga tctacttggg ttctaaggat 360  
 tggcatcctc gtaagttgtc cgtc 384

<210> 44497  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-D8

<400> 44497

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 cctgtcgcgc tcgccgttcc ccgccgcgca gaactcagaa ggtgtttcttc cgacttgacc 180

ttctccaccg ttagctggac tcgtacgcga tctcaggatg gcacagttcc acttggttga 240  
 ccctcactac gacgagcacc acaggggccg tctcaccgca gagggagagg tgttgcccgt 300  
 tctgcggggtc cggaccacg accggtttct gggggagatg aggtacgatg agaggtagac 360  
 tcctcgtcct acagag 376

<210> 44498  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E1

<400> 44498

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 ctggcggcct cgctcgcgtc gatctggtga agctcctcct ctcccgagc gaagacgcgg 180  
 tctgcgggac cgtgcacgag tctggtgcta ccacgaatgc ccagctcaag gtgctggcag 240  
 gagctgagga aacgttgcaa cttctcaatg ctgatctgat ggactacaac agcgattgca 300  
 tcagcacttg ccggtgtca tgggtgtctc catgtagcca atcctgtcgt ttctcatcga 360  
 ccctccaacc ctg 373

<210> 44499  
 <211> 471  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E11

<400> 44499

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 aaattttttt ttttcttttt ttttttcttt tttctttttt ttttttcttt ttttcttttt 180  
 tctctctttt tttttatttt ctttttttat ttttattttt ttttttcttt ttttcttttt 240  
 tctttttttt ttttttctt attttttttt ttcttttttt ctttttcttt ttttcttttt 300  
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ttctcttatt tttcttatct tttttttctt tttttctttt tttttactct tttatctttt 420  
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<210> 44500  
 <211> 308  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E12

<400> 44500

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 atgtcggggg caggatccgc cgccgaaacc gccgtcgctc gcgtcgctgc aagcgtccct 180  
 agccagcagc agagcagtc cgcgcgcgcg gcgccgtccg tcccgctcgc ctaccccgtc 240  
 tgggagaacg agcggtaacg cggctgcagc ttacgaagc catcgctcgc gctctgccac 300  
 ctgcccta 308

<210> 44501  
 <211> 170  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E2

<400> 44501

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 actcgtgcac gactctgatg ttgcctcgaa gtctcagttc aaggtgttgt 170

<210> 44502  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E3

<400> 44502

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ctcttccacc ccgtctctcc tccaaaccct cgacccctca gtgcgctcgc ctcccgccgc 180  
gggagcaggg cggtctcgcg agctgcggcg gcggctgcag gcggacgcgc cgtcgtctggg 240  
tgacttcacg tactcagtgg aggtggggac gcggcagccg cccgctgccc aagcccaagt 300  
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agctgaagct gcaca 375

<210> 44503  
<211> 172  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E4

<400> 44503  
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cttccacacc gtctctctcc tatactctcc gagcctcagt gctcgtcccc tc 172

<210> 44504  
<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E5

<400> 44504  
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gtaagtattc ctatcgtggc acaaaccctc ggatcagagt accggagcgc gtacctcggc 120  
ccataagtgc aaggagacac accctgacga acaccagga gaactacccc actgcgaaa 179

<210> 44505  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E7.

<400> 44505

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gttaggcgat gtgatttttg ctctgtcaca gaaaagtatc cacgtgcctt atagaaacag 180  
caagctaaca caagttcttc aaagttcttt aggtggacaa gcaaaaactc taatgttcgt 240  
tcaaataaat cctgatgttg agtcatattc agaaactata agcactttaa agtttgctga 300  
aagggtgtct ggagtagagt taggtgctgc aagaagcaac aaggaaggaa aagatattaa 360  
ag 362

<210> 44506  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E8

<400> 44506

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cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca cctacggcga 180  
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cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga acggcaagga 300  
gctggacggc cgcaacatca ccgtcaacg 329

<210> 44507  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C6

<400> 44507

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tgcatctggg atattcaaca aactatgcag atgtttagaa cagcaagcac tgacaatgaa 180  
gctgtgatgt caaaggcgcc atcgaggcct gttaacaagc cagtcatcaa agatataagg 240

cgagcaggca attataagta cagaatcgat gaattgaatg acccacctgt acgccatcct 300  
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 aagattcggt actggg 376

<210> 44508  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F1

<400> 44508

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 gccggacggg gacgacgggc ggccgtcggg cgtcggcggg gagcatgacc ggctgctgcc 180  
 catcgccaac gtcggccgca tcatgaagca aatcctgccg cccaacgcca agatctccaa 240  
 ggacgccaag gagacgatgc acgagtgcgt gtccgagttc atccgcttcg tcaccggcga 300  
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<210> 44509  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A5

<400> 44509

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 aaagaagggc ctacgactaa gagggtttaa ggatggaagt gtcccgggac gaagaacccc 180  
 aagaagagac ggccctgtcc gattaattac gaaccattc attataaaag taaaggggat 240  
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 ctccctaaaa cgaacaatac gccttaggct acctagttag agtgcggtgc gcatacctag 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-053-Q1-E1-A6  
  
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 <223> Clone ID: LIB3076-053-Q1-E1-A7  
  
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<210> 44512  
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 <213> Zea mays  
  
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cgtctctgtc cggcccctcg ctgccgccgt ggccgccgcg aagccccgcg cgatgccgtt 180  
ctctcggcgc cccgcgacga gaccagctc cgacgccgag ctactcagcg tcctcgactc 240  
cgagatcaag tacgccgagg actgcgatga ccacgacagg gttgaggaga ttccagaaaa 300  
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<210> 44513  
<211> 172  
<212> DNA  
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<223> Clone ID: LIB3076-053-Q1-E1-B2

<400> 44513  
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<210> 44514  
<211> 192  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-B3

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ctgctccggc ccctcgctgc cgccttgccg ccgcccgtgc tccgcgtcct gtctttctcc 180  
tcggcgcccc cg 192

<210> 44515  
<211> 114  
<212> DNA  
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<223> Clone ID: LIB3076-053-Q1-E1-B4

<400> 44515

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<210> 44516

<211> 350

<212> DNA

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<400> 44516

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aacaggtgaa acacgaatca agcagaggcg ccatgggggtt cacagatcca cacctaaacc 180

gctaaattaa actgcgagcg atacatgata aactaagacc accactcaga tcaccagcat 240

cttattcaga tccaaaggaa cggacgcagg gggagtcgac gatgacggag ggagggcggc 300

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<210> 44517

<211> 140

<212> DNA

<213> Zea mays

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<400> 44517

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<210> 44518

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C10

<400> 44518

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cacgtccctc atgcgggtttt tgttgacctt gagccaactg tcatccatga tgttcggact 180

ggtacctaac gtcattctctt ccacctgta catcttatca atggcaagga cgatgcagcc 240

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<210> 44519

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A4

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cacaacaaat gtgaccgtct ctgtttctct catccccctc atcactctgc tgggtctcct 180

cttccacctc tgggtcttggc catggcctcc agcgccctcc ggttcatcaa gtgcgtcaca 240

gtgggggacg gcgccgtggg aaagacctgc atgctcatct gctacaccag caacaagttc 300

cccactgatt acataccacac tgtcttcgat aacttcagtg caaacgtggt agtcgacggt 360

accacggtga atttgggcct ttggg 385

<210> 44520

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C2

<400> 44520

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tgctaataag agtaaattcca gaggaatga cccggatgat gatctgtgtc ttatggatcc 180

agatggcaac aatctgaaac ctgatccacc ctcccgctcg ctttctagcc ccgtcgccat 240

ggcgtcctgg ctgacgtcgt ggatgccaag cccatgcctg cgttgaaaga gagggagacc 300  
agagacaccc agtggccctg gcggtagtag tgccaagggtt ctattcactg tgagtccgcg 360  
acgccccat 369

<210> 44521  
<211> 263  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-053-Q1-E1-C3  
<400> 44521

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gctaataaga gtaacgcctc aggaggtttc ccggttgatg ttctgtgtca taaagatcca 180  
catgacaaga atctgaaacc tgatacatcc gcccgcactc attctagcag catcggaat 240  
tagttctctc atagtacott tac 263

<210> 44522  
<211> 354  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-052-Q1-E1-G1  
<400> 44522

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gttgatgatg tcaatggagg gagacttata ttctatgact tcgggatgat gggaagtatc 120  
agtcaaaata tccgggaagg attgcttgaa gtattctatg gagtttatga aaaggatcct 180  
gacaaagtgc ttcaagcaat ggttcaaatg ggtgtccttg ttctactgg agatatgact 240  
gctgtcagaa gaaccgctca atttttcctt aatagctttc aagagcgcct agcagcacia 300  
aggaaggaga gagaaatggc aaccgcagag cttggattca aaaagcaatt aact 354

<210> 44523  
<211> 413  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-052-Q1-E1-G10

<400> 44523

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ccgccacccc cgatgctgcc tcanggaggc atgctggggc aggggtttga tcctggttat 180  
ggcgccatgg gaacgatggg tgggtgggtt ggtaacttcc ctgttgacc aagtgctggg 240  
ccgtttcctg ggatgatgca gccatttcct ccggttggtg caccacacat aaaccgggcc 300  
ttctttggtc gtggtgccaa tggggctggt ggggtgggga tgtggcctga ttccggcatg 360  
ggggcttgga gtgtggaaga acaatcaaat ttatgggatg atgcagtgtc tga 413

<210> 44524  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-G12

<400> 44524

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ttctcgggtc tcctatttca ctggttcact ccatctggac atgactgcgg actcaacctg 180  
ttcttcattg tcttcacgtt gattcttggt tttgcgtttg ctattgttgc cctgcacca 240  
aagatcaatg gaagcttggt gcctgcatca gttattggta tgtactgtac atatctgtgc 300  
tacagtggac tctccagtga gccaaaggat tacgaatgca atgggcttca caatcactca 360  
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taatctgctg t 431

<210> 44525  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-G2

<400> 44525

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atgctgaagg gaatccatca gttcaaagg aaatattaga tgcactgcaa agtgccagca 120

agtctcttgg ttctgataat gttaaagtaa aacaagcagc ttcacaaat cctggtgttc 180

caccatcttc attaatgtca ttcataagga agaacatgtc aacttctgga gttgtgttgg 240

aggattttga ttcccacttc tccaataaat tttatcaaaa ctatctggga tactctgtaa 300

acatcaattc ctggtcaata gctgcagccg cccctttggt tgccaggtcg atgtatattc 360

ttgctagtga tgactcagtt gttgaccttt atacactaaa cactataaaa gtg 413

<210> 44526

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-G6

<400> 44526

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caattcccgc cgccgctcca tcccgtaacg cgacaccatg agggagtgc tttcgatcca 120

catcggccag gccggtatcc aggtcggaaa cgcggtgctgg gagctgtact gccttgagca 180

tggcattcag gctgacggtc agatgcccg tgacaagacc attgggggag gtgatgatgc 240

tttcaacacc ttcttcagtg agactggtgc tgggaagcac gtgccccgtg ctgtttttgt 300

tgaccttgaa cccactgtca tcgatgaggt gagaactggc acctaccgcc agctcttcca 360

ccctgagcag ctcatcagtg ggaaggagga tgcagccaac aactttgccc gtggtcacta 420

caccattggg caagagattg ttgacc 446

<210> 44527

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-G8

<400> 44527

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gaagggaatc catcagcttc aaaggaaata ttagatgcac tgcaaagtgc cagcaagtct 120  
 cttggttctg ataatgttaa agtaaaacaa gcagcttcac caaatcctgg tgtccacca 180  
 tcttcattaa tgtcattcat aaggaagaac atgtcaactt ctggagttgt gttggaggat 240  
 tttgattccc acttctccaa taaattttat catagctatc tg 282

<210> 44528  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H1

<400> 44528

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 cttcgagtgc tgcacacctgt cgtccggcgg catcgtcccg gccggagaga gcgcggggac 120  
 ggacatgtgc gtggccgacg aggtcttctg ccagggaag ctctctccgc tccgcgcctc 180  
 ctccggccga gcctccgacg gcgccagcgt cgccacgctg ccgaggtcgg agtcggtggc 240  
 ctccaccgtg ggctcgtgt ctccgtcccg caacccccat etc 283

<210> 44529  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H10

<400> 44529

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 ctgtttcatc tgccggttta atcatcaatt cgtctactgt aataggagcg gacgtcaaga 120  
 ttttattttg ttttagttgt caaatgcacc tgtttttgaa caatatttgt gatgtattgc 180  
 cctgccgcgc ttaaagtccg aaaatatattt ggtacctgct gtgagtttca aaaaaaacia 240  
 agttggttcg ggttaagg 258

<210> 44530  
 <211> 139  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3076-052-Q1-E1-H11

<400> 44530

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actgttcaac gcttattacc ctactatact gttggatggt ctttggacct gtttcatttc 120  
gcacaaggat tggacttcc 139

<210> 44531

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H3

<400> 44531

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gtttttgttg gaccttttgt tcgcaagcaa gaaagagatc attcttttga caagacaaaa 120  
tttaacaatg tctttgtgaa aaatttgtct gagtctacca caaaggaaga ttactcaaa 180  
atctttggtg aatatgggga tattacaagt gctgttgtga tgattggtat ggatggtaaa 240  
tcaacgtgct ttggtttcat caattttgag aat 273

<210> 44532

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H4

<400> 44532

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ttggcccttt tgttctcagg caggaagaca cagttgtctt ttgacaggac agggggttagc 120  
aatgtcgttg tcaaaaattt gtctgagtct accacaaagg aagatttact caaatcttt 180  
ggatgaatgc gggatattac aagtgtgtt gtgatgaatg gtatggatgg taaatcaacg 240  
tgctttgggt tcatcaattt tgagaacca gatgcagctt 280

<210> 44533

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H5

<400> 44533

cgcgggacgcg tgggcaacct gctaaacagg attcagtgat gacagcagct ctgagagctc 60

ctcagacgat gaaccttcca aaaaaccagt tgccggttta aaaaagcctc ctgccaatg 120

tagcagcact gatgatagca gtgacagtga tgatagtagc tctgatgagg aaccaacaaa 180

gaagcccacg gtccttttaa agaagcccac tgtcctttca aaaaaacctg tcacagcagt 240

cagtaatggg tcaaacacag tttaaacctg atagcagcag ctctgacagt agctcagatg 300

aagatg 306

<210> 44534

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H6

<400> 44534

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aagcttccaa aaaaccaatt gccggttcaa aaaagccgcg tgcgagtagt accaccagtg 120

atcataccag tgccactgac gacactagct ctgatgacga acgcaccaac gaacgcgcac 180

ggtcctttcg aagaatccca ctgcccggtc acaacaacct gtcacagcag tcactcatcg 240

ttcacaacag gttaaccctg atagcaacac ctctgacact a 281

<210> 44535

<211> 261

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-052-Q1-E1-H9

<400> 44535

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tactgtttca tctgccggtt taatcatcaa ttcgtctact gtaatagcag cgacttcaat 120

atattatttt gtttttagttg tcaaatgcac ctgtttttga acaatatttg tgatgtantg 180

ccctgccgcg cttaaagtct gagactatct tggtatctgc tgtgatgttt cacatgaaac 240  
agagttgatg tctggtttag t 261

<210> 44536  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A10

<400> 44536

gcggtggcag cagctctaga acgacggatc cccgggcagc agggatactc gacaatctca 60  
cagacatccg ttactgatca acttgctca ttaattaccg cccagaaag aaatcggaaag 120  
gaaatctaga gatgcatcca tgaatcggga gtcgggttag accaaaagct gacaaacttg 180  
acgaaagctg aaaatatcga tggtgaagga ctttttatag ttttactaat gatggggatc 240  
ccattgattg atgagatacg ggaaaattca gcatcaattt ataaataatg aaaatgtact 300  
ggagaatgga ttacatata gaagacatac attggtcacc actcatgatt agtgataccg 360  
tgtacagcat tctcccgagg cgatcgaaag gcagcactgt agggtagcta cgacagcttt 420  
ttcagacata 430

<210> 44537  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A2

<400> 44537

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tgtaccacct cgacgatctg cactgctgtc agcatggctg gcatcgtgtc agggactgga 120  
ttaagcaaag gtgtaggggc agcttgaatg gcagcgtaa tgagaatggc caacatgata 180  
tccacgttgc tacacttcga tacatctgtc gagatctatg tcattgtcga gttccttgtc 240  
gtcatgcttg tcctcaaatt caactgcac tgaaactact gcgtcaatga tggattcggt 300  
gcggcgtgtg tattgtcagc tg 322

<210> 44538  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A3

<400> 44538

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accctaakat tacacctgcc ccagatgccc acgactactt gaactcgagc ctaaaccgat 120
tcaacagcaa catggtaaaa aactaccgac attgctgctc tccaacaaag atgatccaca 180
tctctgccct cccccaagag atctctgagg aagcaatcct gaaccatttg tctgagcacg 240
gtactgttgt caacaccaag ctatttgagg tgaatggcaa gaggcacgct ctcgttttat 300
ttgagactga agaggcagcg accgaggccc tcgtgtcaaa gcatgccagc acacttgaag 360
gtaacacgat ccgggatctc tttctcccag atgc 394
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<210> 44539  
 <211> 220  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-F8

<400> 44539

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ggcctcaag aagctcatca aaaacctgct gccacgctat cccgcggggg gggggcctct 120
ccctcctcct gcctccgccc gcgccgacac ctacggggccg ggggctcctg ccgccgcgca 180
agggaacttc aacctggcca actggttcgc cagcctcctt 220
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<210> 44540  
 <211> 105  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-C6

<400> 44540

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cgggtcgaga cgggaagcgt tgcgccgcyg acggtggtgc acctg 105
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<210> 44541  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-052-Q1-E1-C8

<400> 44541

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tggactaggc cctgtgaaag ccattgtctt ttcccaatgg actggcatgc tggatttgct 120
ggagctttca ctgaatatca actgtataca gtacaggaga ctagatggaa caatgtctct 180
caatttaaga gaaaaaaatg tgaaggattt taacactgac ccagaggtta gagttatgat 240
tatgtcactg aaagetggta atcttggctt caacatgggt tctgcttgcc atgtaattct 300
ccttgatctc tgggtggaacc cttatgctga ggaccaagca gttgatangg cacacaggat 360
tgggcagact aggctgttta ctgtatctcg cttgaccgtt aaagacac 408
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<210> 44542  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-C9

<400> 44542

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aactgtaagt ggcgccgggc ggacaccggc gaggaggcga cggaccgacg gcgcactccg 120
tcgaggggac gcggaagacg tattcgga cctacgagcc aaggaggcga cgcggtgcgg 180
cgctgaacac cgtgccggag gcccgagcgc gcggggcgcaa ccggcttggc cgggcggtgt 240
ccg 243
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<210> 44543  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 44543

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gtgagtacag agagtagcct tacgtagcga agctcagagc aagcgagggt acggtcaagg 120

gggggtgatgg cgctgtctcg acgcatggcg gctcccgtcc tcgtcctcat gtcctcctc 180

gtcgccacag agctggggac gaccaagggtg gcggaggcga ggcactgcct gtcgcagagc 240

caccggttca agggcctgtg catgagcagc aacaactgcg ccaacgtgtg ccagaccgag 300

aacttcccc gcggggagtg taaggcggan ggcgccacgc gcaagtgctt ctgcaagaag 360

atatgccagt actaccctcg gctttgctgg cacaagcagg t 401

<210> 44544

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-D12

<400> 44544

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attaaagctt cgtatggtat gtcctgaga gtgaccctga gggggagggg gggccttcat 120

tttcaatga 129

<210> 44545

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-052-Q1-E1-D2

<400> 44545

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tgcgcaaata ttttctctg tttacttcag tgcattgggt aacaagtcatt atttcaaacc 120

gcttgttttc agtagcattg tttgtttctt ggggaatgta tgctatgcaa tggcatatga 180

tatgaagtcc ctaacagtc tttattatcg ccgtttactc tgtgggatgg gttctgcaag 240

agctgtcaat cgccgggtaca ttagtgattg tgtcnctgca agaatacgca tgcaagcttc 300

ggcaggattc gttagcgcaa gtgcacttgg catggcctgt gggccagcgc tagctggttt 360  
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<210> 44546  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-D6

<400> 44546

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 cgatcctgtg catgggtgcta aaaaactcga gcagcagaac ttcttacctg aggaaatcga 180  
 cacgcttgag cagaacttcc tgtcctatct ctttcggtgc aggtgatgga aaagagcaat 240  
 ttttaacatag taaatgacga tgagggtgaa cttgctcatt ctggacaata tctgttgaat 300  
 cttcccatga aagttgatga atcaaagtta gatgacaaac ttctgtcgaa gtattttaag 360  
 gagcaccgtc atgaaaacct gcccacttcc tcagacaaat atgttatatt tcgtaggggc 420  
 attggattgg accgca 436

<210> 44547  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-D9

<400> 44547

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 gccgtccgcg tcctcgtctc gcccgccgtt ccgtcttgtc gctgggtcca agggccattt 180  
 ttgtactttt cctcatggag catctagcaa tcacagccgg ctatgtgttc aacatcaaag 240  
 gtgttctcgc agtccaccc agaactatgc tctttctagg aaggattttt ctctataaac 300  
 tcaagatgtg gaaggcttcc ttcacaatgt tgtaaacatg gggtttcttg accgtctgaa 360

<210> 44548

<211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-052-Q1-E1-E10  
  
 <400> 44548  
  
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 tgtgaaaaga cccccgtaga tttacatttg gcagtccttg aaggagactc tggacttgcc 180  
 catcgtgctc agcatgtact tgatgaagac ggtcgacctg tttcaacctc 230

<210> 44549  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-052-Q1-E1-E11  
  
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 cgaaggctgc aactgatgga acaacttcat agccttgatt tgggacgtgg atctgctccg 180  
 caaggttttc cattcaagcc accctctcct tggaaccacc caaggtagga ggatgaccgt 240  
 tcgatttcat gattgtaaatt tcttcagtag tggttctttt ctccccgcct ggcgattgca 300  
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 ttgtgcg 367

<210> 44550  
 <211> 322  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-052-Q1-E1-E12  
  
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 gccgctcga aggccggttc cgacgacgtg ggtgccgcct ccgccaacag caccgccgcc 120



tccggtgagg acctcaagaa ctgggatgcg gacttcgtca aggtcgacca ggccacgctt 180  
 ttcgacctca tcttggetgc aaactatctg aacatcaagg gtctgctcga cctgacctgt 240  
 cagactgttg ctgacatgat caagggcaag acaccagaag agattcgcaa gaccttcaat 300  
 atcaagaatg acttcacccc tg 322

<210> 44551  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-052-Q1-E1-E4

<400> 44551

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 ggcccccttca ttttcaatga tgtcggaggt tgctcgcanc ttacaagtca ctcttggttg 180  
 tgggtccata gctgaacgtt cgggaaacaa cttatacaat acatgctgca tctttggttc 240  
 agatggcaaa cttaagggtta aacatagaaa gattcatctt tttgacattg acattccagg 300  
 aaagatcact ttcaaggaat cgaagactct tactgctggg cattatccta ctgttgtaga 360  
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<210> 44552  
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 <213> Zea mays

<223> unsure at all n locations  
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<400> 44552

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 gcaggagctc gtcggacatg aacaaccacc aagacgcaag ggtggccgcc ctggtcagga 180  
 ngaacgtggc gctggaagag caactgtcgg cggcgtggc gagcaaggac gaagcggaga 240  
 agaacctgtc cctggtcacg gacagcaaa 269

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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-052-Q1-E1-E8  
  
 <400> 44553  
  
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 <212> DNA  
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 <223> unsure at all n locations  
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 atgcggatcc tgatggtggg actcgacgcc gccggaaaga ccaccatcct ctacaagctg 240  
 aagctcggcg agatcgtcac caccatcccc accatcggat tcaatgttga aactgtggag 300  
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 <213> Zea mays  
  
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cagttcccccg tcggccgcac cgggcgctac ttgaagaagg gccgctacgc gcagcgtgtc 240  
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<210> 44556  
 <211> 79  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-F3

<400> 44556

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 tatcaggttc taatggcgc 79

<210> 44557  
 <211> 56  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-F4

<400> 44557

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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-052-Q1-E1-F7

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 aaggccctca agaagctcat caagaacctg gtgccacgcg agcccgcagc ggccctcct 120  
 ctccctcctc ctgccccgc cgcgcgcgac gccgaggggc cgggggctcc tgccgcgcg 180  
 cacgggaacg tcaacctggc caactggttc gccagcatcc tcgacgcgga gctgcacaag 240  
 ctcaacgagt tctacatcga gagggaggag tggtacgtca tccgctcca ngtgctcaag 300

gagaggattg agcgcgctcaa ggctaanaag aatgacgctt ttacatccag gagtgagttt 360  
tacgaagaaa tgtagagat acg 383

<210> 44559  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-G11

<400> 44559

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ctgcttttat gccactcatg catcatgata tcatcaatga gataccgagt caccttcaaa 120  
gaatgcaata tggtgcattt gcctcgtttc ttgagttggt ttgctgcctc ttctggaatg 180  
tcatagcagt tactacagct tggatcaagg gggaagggtg taagatctgg ttattggcaa 240  
taatttactt catatctggt gttcctggtg catatgtttt gtggtatcgt cctctgtata 300  
atgcaatgag gactgatagt gcattgaagt ttggattggt cttcttgctt tacttggtcc 360  
atattctttt c 371

<210> 44560  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-G12

<400> 44560

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aatacgttgc atttgctcgc tttcttgagc cagtttgcta cctactctgg aatgtcataa 180  
cacttactac agcttggtac aaggtggaaa gtgttaatat ctggctatcg gcaataattt 240  
acttcatatc tgacgacact ggtgcat 267

<210> 44561  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-H11

<400> 44561

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tcaatcatcc ggatgtcgga ggcacatgca aggatgcac tgaggagcta cgtgtctcag 180  
gaagatgttg acatggccat ccgtgtcttg cttgactctt ttatttcgac tcagaagttc 240  
gggtgtgcaga aagcacttca aaagaatttc cggaagtaca tgacattcaa gaaggactac 300  
aacgagctgc tctgtctgct cctgcgcaca ctggtcaagg acgccgtgca cttcgaagaa 360  
atcatggcag gatca 375

<210> 44562

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-H9

<400> 44562

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ggcaaacaat gtaaaaaagt ccaaccttac atactcgatc atgcaacata atcacctcca 120  
ttatactgta aactaaattc aatttactac ccaaattcat acaacttccc gactgttaaa 180  
accctggcga ctcccaaadc aatggcctta cccaacataa tcgtttcgca agatataccta 240  
atttcgaaaa gtcccgtacc aatcaacatt cccaacactt tcgcac 286

<210> 44563

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-A10

<400> 44563

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cctctccgcc tccaggagca aggcgccggc ggaggaggcc gcgtccggag ctgggcccac 180

gtacgtgaag gtgagcatgg atggcgcgcc ctacctcagg aaggtggaca tcaagatgta 240  
ctccagctac gaggacctct ccctggcgct cgagaagatg ttcagctgct tcatcgctgg 300  
tcaaagtggc ctgcataaat catcgagcaa agacaggctg actaatggct cacagggtgga 360  
tgccctcaaa agacaggagt atgtccttac atatg 395

<210> 44564  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-A11

<400> 44564

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aaaaaaaaa aataataaca atattatagc acaacaaaaa aaataaaata ataattaaaa 120  
gggggggggg aaatattaac aacaggggag gccctctaa aaatttcaac tttacttatt 180  
cttttatgca acttcaaacc tcttctaaat tttcccctaa atttaattcc ctgggccttt 240  
tttttaaaac tttt 254

<210> 44565  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-A12

<400> 44565

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atggtggaag aaacttggtc gagatgatca aagggcacct cactttgtga aagttgattg 180  
ggacaaatgg gttgacgaag atgatgatgg tgctgatgtc aacttggtg ggatggactt 240  
ctcgaatttt ggcggtatgg gtggtatggg tggcatgggt gatatggctg gcttgggtgg 300  
tcttggtggc atgggtggaa tgggcggtat ggggtggtat ggaatggatg attttgagga 360  
tgatagtgat ga 372

<210> 44566

<211> 402  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-052-Q1-E1-A3

<400> 44566

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ccggcggggcc gaggaagaag tcggtgacga ggtccgtgaa ggccggggctc canttccccg 180
tcggccgcat cgggcgctac ctcaagaagg gccgctacgc gcagcgcgctc ggcagcggtg 240
ccccgtcta cctcgcgggc gtctctggagt acctcgccgc tgaggctctg gagctcgccg 300
gcaacgctgc caaggacaac aagaagacgc gcatcgctcc gcgccacgtg ctgctggcga 360
tccgcancga cgaggagctc gggaagctgc tgaccggcgt ga 402
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<210> 44567  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-052-Q1-E1-A7

<400> 44567

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cggggcagca nncacatcat cancagcaac aacaaccgt ggccatcctc cctcagcgcc 180
gtcgtancgc cgctgccgcc gcaaccgcca agcgcaggcc tgccgctgac cctgaacacg 240
gtggcgggca ctgggaacag cggcggtagc ggcaaccgg tgctgcagct tgccaacggt 300
ggcgggcctc ctcgacgcat gcgt 324
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<210> 44568  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 44568

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gcaggagact gagatggggg gttttgtcaa gaccacaaag agcaatgctg acttcaagcg 120

tttccagggtg aagttcaaga gaaggcgcgc tggcaagaca gactacaggg ccaggataag 180

gctgattaac caagacaaaa acaagtacaa tacacccaaa tacagatttg ttgtgctgatt 240

taccaacaag gacatcacag cacaaatcat ctctgctagt atagcatgtg atatggttct 300

tgcttctgct tactcgcatg agttgccacg atatggtctt gaagttgggtc tgnacaacta 360

tgcagctgcc tactgcactg gccttctgtt ggct 394

<210> 44569

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-052-Q1-E1-A9

<400> 44569

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tttaggggttc actanaataa aaaaaaaaaag aaaaataaaa aaaaaaaaaa aaaaaacaaa 180

aaaaaagaaa aataanaaaa aaaaaaaaaa ataaaataaa accaaaataa aaatttggtta 240

tacaaattaa aaacggggggg gcggtctcaa a 271

<210> 44570

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-B10

<400> 44570

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gagacgaaca tggatgaagat gagaaattgg caaacaattc cattagcaga gggtcagggc 120

caaataaatc ttgtgattat ggcagacaat tcgggaattt gcactcaatt cctgaaacag 180



gaaatgatca tcttgtactg aacatggatg ctattgtcag atgtgatgca caaatatctg 240  
 ttaccagggc tcaagccgctc acttattaat aaattgtgga ttggaatgaa actccgctgc 300  
 ctgacaatga cagtgtccac cctgggaaaa agagaaaacg ccttctgaca gaag 354

<210> 44571  
 <211> 97  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-052-Q1-E1-B12

<400> 44571

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 gcctaacctt taattttcat tttctattaa aatgcc 97

<210> 44572  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-B2

<400> 44572

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 ccttcataag ctaggtggcc agttccacct gagctccagc ttctctgaag gtgtacgggc 180  
 ccgtaacatc tgcctttctt tctcatctta tgaaaggaga tttgccacga ggaactacat 240  
 gacccaaagc ctttggggcc cttcaatgtc tgtagcggt ggcatcaatg ttccagtgat 300  
 gccgactccg ctttttgcca atgctccagc cgagaaaggt ggcaaaaact tcatgattga 360  
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<210> 44573  
 <211> 133  
 <212> DNA  
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<223> unsure at all n locations  
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<400> 44573

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aggaccacgg cctaaccttt aattttcgct ttctaataaa atgcgcacta cgggtttccc 120

ctctgatcc ttc 133

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<211> 195

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-052-Q1-E1-B5

<400> 44574

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cacccgattc ttccacattg ggtcgtcctc cctctcaacg gggaacaagc caatgggggtg 180

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-G10

<400> 44575

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tgatgaccaa gcagcagccc aaagagccag ggacttccac attggctggg ttgttgatcc 180

attgataaac ggacactatc cacagataat gcaagatctc gtgaaggaga ggctgcccag 240

gttcactcct gagcaggcta aactggtgaa gggctcggca gactacatcg gtatcaacga 300

gtacacatcc agctacatga aggggcagaa gctgggtccag ctggcgccca gtagctactc 360

tgccgattgg caagttcaat atgtttttgc acgcaatggc aaaccgattg gaccacaggc 420

gaattct 427

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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-052-Q1-E1-B6  
  
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 cccgcacacc tgccgcgcct ccaagtactc ggagttcttc aagcgagagt gccgcaggc 300  
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 c 361

<210> 44577  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-052-Q1-E1-B9  
  
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 caaataaatc ttgtgattat ggcacacaat tcgggaattt gcaactcaatt cctgaaacag 180  
 gaaatgatca tcttgactg aacatggatg ctattgtcag aggtgatgca caaatatctg 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<400> 44578

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ccgggacgaa aatgacngag tccctggtgc ggaacaagcc ggggatggcc agcatcaagg 180

agatgccggt ggtgcaggac gggccgccc cgggcggttt cgcgcccgtg cgcttcgccc 240

gccggattcc cacctcgggg gccagcgcca acgccatctt cc 282

<210> 44579

<211> 365

<212> DNA

<213> Zea mays

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<400> 44579

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gtggtcacca acaagctcgc caggctccgc agccaggagg atgagtagtc tggtttcttg 180

tcataacggc caactagatc ctgccattcc cggctgtagg aaactactct gctttgtgcc 240

ttgttggtac ttagaatacc agtcattttc tacatttttg gtaccagtag cgacttctat 300

gtggcatatt ctactgttat cttgcgtctt aattaactgc aactcaaggg ttcaatggtg 360

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<210> 44580

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-H9

<400> 44580

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gtcctacaag ccccaaaaga ttagcccgaa attcaagaat accgtgaggc atttgctaca 180

ccagaaaatt cgggattcct atatgcacc tcagtttgtg tctgatgtaa tgaagccact 240

gcaaattgaa caactcatgg accaggaggt tgtaattta tctggtggag agctccaaag 300  
 agttgctata tgctctgcc ttggaaagcc tgcagatata tatctgattg atgaaccaag 360  
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<210> 44581  
 <211> 318  
 <212> DNA  
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<223> unsure at all n locations  
 <223> Clone ID: LIB3076-049-Q1-K1-A11

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 tatttctgac gctattcttt tctaggagac cctttatcaa tcaactacag actgcaagaa 180  
 ctttgctgac tgcttaaagg atcataatat cattcctggc atcaagggtg acaaggattt 240  
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 aaagtgttct aatttcta 318

<210> 44582  
 <211> 280  
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 <213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-B12

<400> 44582

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 tcgggaagat gtcggtcggc gtgcgcaaga gcgcgagcgg tcccgcgatg aagatcagca 180  
 gcgcgagcac gacgaacgta tagggcctgc gcaacgccag ccggacgac cacatgatgt 240  
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<210> 44583  
 <211> 411

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-049-Q1-K1-B9  
  
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 gtggatcctc agaaggccga agctatcgat caatttttac tgaagttgag atctcttggg 240  
 tcaggagagg ctgcattcac ttttattctt gatgatcctg caggaaacag ctttattgag 300  
 aatccgcatg ctccgttatt agatccttta ctatctgtga gattctacga aagaactcgt 360  
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<210> 44584  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-049-Q1-K1-C9  
  
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 caaaacctga attcattaat ttaactcact ctgtatt 217

<210> 44585  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-049-Q1-K1-D10  
  
 <400> 44585  
  
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 ggttgccctca aggtggtcag aagaggagga acgtttgttc cagcaagtgg tctcgtcaaa 120  
 ccgtgcttct ctgcgcagga acttttggga tgaacttcct cttgccttcc cttccaagtc 180

cagcaaagag ctagttagct actacttcaa tgtcttcatg ttgaggaaga gggctgagca 240  
gaacagggttc gaccagcgga acattgacag tgacgacgat tagtggcaag caggtggtga 300  
ttttgagttt ccaataacag gaagaactga tgaatacatg ccaatcgagt cccttactga 360  
tcaagatgat gttgcttgca atccattttt ctttggaggg gatttatatg gagattc 417

<210> 44586  
<211> 175  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-D11

<400> 44586

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ttactcttgc ctttccttac aagtcagca aagagctagt gagctactac ttcaatgtct 120  
tcatgttgag gaagactgct tagcataaca ggttcgaccc atctaactt gacag 175

<210> 44587  
<211> 336  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-049-Q1-K1-D12

<400> 44587

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ctgacccgtg ccaggtttga ggagctgaac aacgacctct tccgcaagac catgggccc 180  
gtcaagaagg ccatggagga tgctggcctt gagaagagcc agatccacga gatcgtcctg 240  
gttgggtggaa gcaccaggat tcccaaggc cagcagctcc tgcgggacta cttcgacggc 300  
aaggagccca acaagggtgt caaccctgat gaggct 336

<210> 44588  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-E11

<400> 44588

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tctacggaat gctcagagcc agttgcagca tcaaattata aggatagaga atctcgagct 180  
tatgctgaaa tatggcgtag atgtttggaa gctccagaac agacaaatgg aatcagttct 240  
gtctaggatg caaaagatgg ctgtagaata caatgaaagg atagaaaatg tcaatcgaga 300  
gaggaagttc caccagcaaa atactcgaag acaacttcat gccctgaaaa ttgaatggcc 360  
agaactgtgt c 371

<210> 44589

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-049-Q1-K1-E12

<400> 44589

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gccttatcag tgtacatcac tgacgagtgc atccatgcct ttgctgacgc ttctatggcc 120  
actgcttatg aaaagaaatg gccattgtat cttagcacca aaaacactat tttgaagaaa 180  
tatgatggca ggttcaagga cattttccag gaggtgtatg aagctgggtg gaaaaccaa 240  
tttgaagctg ccggcatatg gtatgagcac cgccttatcg atgacatggt agcatacgca 300  
cttaagagtg aaggagggtg tgtctgggct tgcaagaatt atgatggaga tgtgcacagc 360  
gacttcttag ctcaaggttt ggctcattgg gtttgatgac ttcggttaact gtgtgccctg 420

<210> 44590

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-F10

<400> 44590

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gatggcgccg aaggccgaga agaagcccgc ggcgaagaag ccggcggagg aggagcccgc 120  
 tgccgagaag gcgccggccg ggaagaagcc caaggcggag aagcgtgtcc cagcaggcaa 180  
 gtccgcccgc aaggagggcg gcgagggaaa gaggggccgg aagaaggga agaagagcgt 240  
 ggagacctac aagatctaca tcttcaaggt gctgaagcag gtgcaccccg acatcggcat 300  
 ctctcttaag gccatgtcca tcatgaactc cttcatcaac gacatcttcg agaagc 356

<210> 44591  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-048-Q1-E1-H5

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 caagaagtta cgcangatga aggagaggct tgtcggcgtc tctgangaga caccacgggt 120  
 gtcaagaggc tctaccanat gcangagacc ggcgccctcc tcttccctgc cattaacgtc 180  
 aacgattccg tcaccaagag caagtttgac aacctgtatg gttgccgcca ctgcctccct 240  
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<210> 44592  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-049-Q1-K1-F11

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 tcccggcaca cgctactcg ctcccttcgc ccgccgcatt ntccctcgct tcaatgctcc 180  
 cgtgcggtc ctncccaaac gcaggtgcgc ggtctacggg aaccccatcc gcatgtccat 240  
 cctcaagtgc agagcatcca agactgaggc cctggcgcg cttcttccga gagcgngtt 300  
 attgggcgaa cagcaggccc aggtcgtgct cgtgcttggg ggagccggag g 351

<210> 44593  
 <211> 133  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-049-Q1-K1-F12  
  
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 attggaacaa tgggattccc tgaacaagag ttacatgtcc agcattaaag tggttatcca 120  
 ggттаactaa aag 133

<210> 44594  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-048-Q1-E1-E1  
  
 <400> 44594  
  
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 ctttgcaatc atggttttga tgcttccatc tgatagtga agaaaatggc atgtacatga 180  
 attggagctg gttgagggtg ttgctgatca ggtagcactt gcactatctc atgctggctat 240  
 tcttgaagag tccatgcgag cacgtgattt actaatggag cagaatgttg ccctggattt 300  
 atctcgaaga gaggctgaga tggctatccg tgctcgcaat gattttctag ctgttatgaa 360  
 tcacganatg agaacaccca tgaatgcaat aatagccctt tcttccttgc ttttggtaac 420  
 tg 422

<210> 44595  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-048-Q1-E1-E10  
  
 <400> 44595

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tcgcagtcgg cgaatctgga ggccatcaag atgaagctgt gggagcagat cagcggcaac 120  
atggtgctgg gtacatacaa ccagatccca gaatggcagc tcaggctagg accaagggac 180  
cgaggacccg tccttgtgat cctcgacgat gtttggcttc tcccgcagct tgaggagctc 240  
atcttcaagt tccctgggtg caagacccta gtcgtatcaa ggttcaagtt cccacgctg 300  
gtgaaacaga cgtatgagat gcagctgcta gacgaggcgg cagctctgtc cgtcttctgc 360  
cgcgctgcgt tcgaccagga gtgtgttccg cagaccgccg ac 402

<210> 44596  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-E11

<400> 44596  
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tcgcagtcgg cgaatctgga ggccatcaac atgaatctgt gggagcagat cgggggcaac 120  
atggtgctgg gtacatacaa ccagatccca gaatggcagc tcaggctagg accaagggac 180  
cgaggacccg tccttgtgat cctcgacgat gtttggcttc tcccgcagct tgaggagctc 240  
atcttcaagt tccctgggtg caagacccca gtcctatcaa ggttcaagtt cccacgccg 300  
gtgaaacaca cgtatgacat gcacctgcta gacgaggggg cagctctgtc cgtcttcagc 360  
cggcctgcgt tcga 374

<210> 44597  
<211> 118  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-E12

<400> 44597  
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ggctgggttt cagcgccgcg ggcgcggcta ggcttctccg cgctcaccgc cgcgctcg 118

<210> 44598

<211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-048-Q1-E1-E5  
  
 <400> 44598  
  
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 gcggctttac caactccgcg aacgcctctc ctccgccaat gacaaatccg aacatgcggg 120  
 ggactaagaa gggaatattg caaccgtgaa aggacaaatt ccaaagcgaa gcagctcgca 180  
 gcgcagctta tccccagggt cttccggagc ttccctgcac tcggcacgcg cgccatgtca 240  
 gccatgttcg atctcgtcga tatggaggag ctgcgatca gaatacaagc tattcgtggc 300  
 tttccacttc ttggcaaaga tactgaattt gtgtcaaaaa ttgcagatgt tttgggtcag 360  
 ctcccttaca gcgaagaaaa tgttgagcgt gatgctgttc ataaagcgct catgtccctt 420  
 atacggcaag atgttaaa 438

<210> 44599  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-048-Q1-E1-E6  
  
 <400> 44599  
  
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 gcctacctcg accgtgctt cctccccggg ggcgcgctcc ggctcggcga ccagccctgg 180  
 atggcgcgcc tagccgccgt cacctgcttc gcgctcgccg ccaaggtcga ggagacgcgc 240  
 gtgccgccgc tcctcgacct 260

<210> 44600  
 <211> 217  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-048-Q1-E1-F10  
  
 <400> 44600

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aaagggccca aattactctt gacaagacct ttactaccac gtcagctgtc agcaggtcca 120  
atataaccaa cattgacaaa gaccctctat tcagtacaaa caagcacaac aatacgggtg 180  
caattttcag acatcctcac tcaccactca aggatcc 217

<210> 44601  
<211> 203  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-F11

<400> 44601

cttcacaggt ccacttcctt gcagttgaac tcaagcaata taataagtca acggggccgaa 60  
attactcttg agaggacctt cactaccacg tgagcgggca gcaggtcaaa tacaatcaat 120  
attgacaacg accctgcaat cactagaaac aagcacaaca ataggggttgc aattttcaca 180  
tattctcaat cacagcccaa cga 203

<210> 44602  
<211> 152  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-048-Q1-E1-F2

<400> 44602

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taatggtcct cctcaaccca atcccccca agaacngccg ccgcccgcgc caagtcctta 120  
cccacaaccg cgagcggggg cggcaacccc cg 152

<210> 44603  
<211> 238  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-048-Q1-E1-F5

<400> 44603

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 gtagaaacaa gcagaacaat agggttgcaa ttttcagaga tcgtgagtca gagcgcaagg 120  
 atcctgatta tgacagaagc tatgacaggt atatgcaaag atttgatcct ggatttgat 180  
 ttagtggcgg cccatacaca attcaacccc tctatacccc tgctgttaac tacaacac 238

<210> 44604  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-048-Q1-E1-F7

<400> 44604

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 ggatgagaac atggctggtg aatggaacca cacttcggga aaatggaatg gagatgccga 120  
 ggacaaaggt attcaaacct ccgaggatta caggttctat gccatttcag ccgaataccc 180  
 tgagttcagc aacaaggata agacctggt gctgcagttc tctgtgaagc acgagcagaa 240  
 gcttgactgc ggtggtggct acgtcaagtt gctgggtggt gatgtanacc aaaagaaatt 300  
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 gaaggttcac actatccctg aca 383

<210> 44605  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-G1

<400> 44605

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 actgctatca caattgattc cttctctcca aaggggaaaa acggaatata tataaatata 180  
 tcctttgttc tgctgtaata gatactacaa gtggagtcac atgcaatata aatgcacgat 240  
 ttttccatga gcagagtagt acaatcgcat attaccatgg catgccatga tcaatcgtgc 300

atcacaaatca agccatagca taaaaatgta ctccgtcccg gtttccttca cttgaacatg 360  
gagatgtcaa acacacgggc ggagccatct gatg 394

<210> 44606  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-G10

<400> 44606

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cacggaagga acgcgccacc ttcaggccct tctagatgga ggctcaaagc cccacaaatc 180  
cacaacaaag agaacattcc tgtgacgatg agcaaatcaa atcctgggga tgacactaat 240  
aaggctgttg gcagagcaag gcgcgtttca cttactccgg tgattcgaca aatccccatc 300  
cagcccaaga ggcggtcttc gatagcaata ctaccatctg tgagagagca tctttctgtg 360  
ctaaa 365

<210> 44607  
<211> 327  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-048-Q1-E1-G5

<400> 44607

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tccctcccca acaccgagcc caatggggga caactcaacg acaacagatt gcccaattca 120  
aagaggcctt cagcctcttc gacaaagaac gggatgggtg catcacgacc aangagctgg 180  
gcactgtcat gcgctcgctg gggcaaaatc ctacagaggc tgagctccag gacatgatca 240  
acgaggtcga tgctgatggc aacggcacca tcgatttccc agagtttctc aaccttatgg 300  
ctcgcaagat gaaagacacc gactctg 327

<210> 44608  
<211> 374

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-048-Q1-E1-G6  
  
 <400> 44608  
  
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 tgtanggaag atcactgcac aattatTTTT atattatcgt tcctataagg ttttgagaat 180  
 ctgtgggttaa gttgtattgt aaagctagtt agtagcaaaa ttgtttataa ggctatttga 240  
 gctcttatat cttcatacac atttaatttt tcgcagcttg tgaacattgg gaagcccaat 300  
 taaatatttg aatctgcata gagtattggg aatagtcaat agtgggtgaac ttttgaatga 360  
 ttcagttttg agac 374

<210> 44609  
 <211> 275  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-048-Q1-E1-G7  
  
 <400> 44609  
  
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 gcctctctcc attctcctcg cgccctcgcc tccggctctc cgcacaccgg tcggttacct 180  
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 tacgccattg ggtctttcgc tgcaatgagc ctctc 275

<210> 44610  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-048-Q1-E1-H1  
  
 <400> 44610  
  
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gaagccgcga gacggcggcg acggaaaggg ggcgccgcct ctgcagaagc acagcagcaa 120  
 cgggtcttct tctccgctc ttccgagacc gtcgctgtac agacaccaat ggcggcctcg 180  
 gaccagtacc cctgcccagc cctgcccgcg gaggacgggg gccctgcccc tgcagccgcc 240  
 ggccggccca aggatcctgc ccccaactgca tctgctacaa cagccggcg 289

<210> 44611  
 <211> 252  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-H10

<400> 44611

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 gaggggaggt gtcctacaaa ccccaaaaga ttagcccgaa attcaacaat accattaggg 180  
 atttgctaca ccacaaaatt cgggattcct atatgcaccc tcagtttgtg tctcatctca 240  
 tgaagccact gc 252

<210> 44612  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-D8

<400> 44612

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 ggggtgtcatt cgagttgacc gtccaatatg tcgcgcgctg ccttgagaag aacactgcaa 180  
 tctccgggga ttctggcaag gcatcattcc accttgacc gaacggcagc ggcgaccacc 240  
 acagagaatc caacgaggca aaggcagggc tctacgtcga cgaatcatac catgacttgc 300  
 ccgagaaaagc gacgcggtcc ctgtccctgc gcctgagcaa agagttcatt ttcaaca 357

<210> 44613  
 <211> 97

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-H12

<400> 44613

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ccccggcgaa ctctaattcc cccaaacact acctacc 97

<210> 44614  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-H3

<400> 44614

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cttgccaaag ggatggacaa agctgaaaat gctccaattt caagctgttc tgctgggtgg 120

ttaacctcca aactacactg tgacaaattt catgaccttc tgccgccggc tgccaagggt 180

aagtgccttt ctgatgctgg gttcttcatt aatgaaaaaa acgttgccagg agttgggtac 240

attgctgcct ttttcaacga cgtcggttaca acacatgtac acattttttac ttcacacttt 300

gtggtactaa taatagatga atatcatgtg gggggtaatt gcaacacatc cagtacaaga 360

caacgagagg attcctacgc ctcagttcag ctgattaaat gaaac 405

<210> 44615  
 <211> 120  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-B11

<400> 44615

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ctttctttaa aaaaaaaaaa gtaacaaaaa acaaaaaaaaa acacctaaaa aggcatacacc 120

<210> 44616  
 <211> 183  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-048-Q1-E1-B5

<400> 44616

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ttctggagct cgccggtaat gctgccacgg acaacaagaa gactcgcatt attccgcgcc 180  
acg 183

<210> 44617  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-B9

<400> 44617

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ggcgagcggc ctcccgtcc accggcgcg cctgggctgt gaagcagggt cggtcaccg 180  
gcgtccccgc gcgcctccgc gacagcctcg actgcgaggt ccgcttcctc gccgccgtca 240  
gccaccccaa catcatccgc ctcatcgacg tcgtccagac ccagagctgc ctttacctcg 300  
tcctggagct ctgcgagggc ggggacctgg cggccttcac ccggcgcaat gggag 355

<210> 44618  
<211> 356  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C10

<400> 44618

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cagttgacat tgaatctgtc ctctgatgct cctagagctg tacccttgag gggcttgtgc 180  
ttttgtgagc ttgtgttaaa cctgctgtac gagtaacta gtatgtccgc aaacgcgtca 240

gagccggatg tctgtgggcc agctattggg atactgccgg atatcgtcaa caattgttcc 300  
agattggtgt attggatcaa atgagattgt cagcaattgc ttgtttttat ggcttc 356

<210> 44619  
<211> 197  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C11

<400> 44619

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cctgtggaaa ctgaatacgt gatgtatttt cctgcccagg gagtaggggc gggagttgac 120  
attcaatctt tctctgatg atcctacaac tgtaaccttg cagggcttat tcttttgтта 180  
acctgtgtta aaccctc 197

<210> 44620  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C12

<400> 44620

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tgcccagcaa ctgtcgatga agggcttcgc gggcgacacg gccaaaggccc acgccaagac 180  
gagcatgata gccggggagg gcgtgagcaa catccggacg gtggcggcgt tcaacgcgca 240  
ggacaagata ctgtccctct tctgcagcga gctgcgcgtg ccgcagatgc acagcctgcg 300  
ccgcagccag atctccggcg cgtctctcgg gctctcccag ctctccctgt acgcgtccga 360  
ggcgtcatc ctgtggttcg gcgcgcacct ggtccgcacc ca 402

<210> 44621  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C4

<400> 44621

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ccgcgccgtt ggtggatgcg gccccaaagg cgcccgccga cgccccggcg gcgcctgctg 180

ccgacgcgaa gccggccaag gccaagaagg ccaccgcgcc gaagaagcgc gccagcccga 240

cccacccgcc gtacgccgag atggtctcgg aggcgatcac gtcgctcaag gagaggacgg 300

ggtccagcag ctacgcgatt gccaagttcg tggaggacaa gcacaaggcc aagctcccgc 360

ccaacttccg caagcttctg aacgttcagc tcaagaagct 400

<210> 44622

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-048-Q1-E1-C6

<400> 44622

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gtcgccgccc tcgagcagtt caagatatcc gccgaccggt acatgaagga aaggagtacc 120

atagctgtga taggcctcag tgtacacaca gcaccagtgg agatgcgtga aaaacttgct 180

gttgacagagg aactgtggcc ccgtgctatt caagaactca ctagcctgaa ccatattgaa 240

gaggctgctg ttcttagtac ctgtaataga atggaaattt atgtggtggc gctatcatgg 300

aaccgtggta tcagagaagt agtggactgg atgtcgaaga aaagtggat tcccgcttcc 360

gagcttangg agcacctggt catcttgcca agcagtgatg cacacgccat ctggt 415

<210> 44623

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-048-Q1-E1-C8

<400> 44623

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gattctggta ctgaacaact tcacttcata gctctttcag agaggagggg ggatcccaat 120  
 taccaacata acgtctaaaa acatcattaa acagcctcaa taaatatatc ccagtgatag 180  
 tttacttctt atttacataa atcctcattc ctgggacagc atcataactca tctatcacat 240  
 tttgtgctat gtcacacagc ttctaccaaa atttactcaa cgtct 285

<210> 44624  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C9

<400> 44624

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 ggtcgggatg gcggcggcgc taactccggg ggtgtcccgg aagttgaaga atgtgctgga 180  
 gacgcgtacg gataaccggg atctgctggc ctgcgtgggc gcgctctcca ctttctacgt 240  
 ccagaacacc ccgcaggcgc gccgcaatct caaatcctcc attgagcagc gtgcacttgc 300  
 catcaatcgc cacttcttcg aaccctcgt ccccgcccac aaagcgtgg atcg 354

<210> 44625  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-048-Q1-E1-D1

<400> 44625

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 accccaactc gcccgcacg gatggcgccc aaggccgaga agaaaccgc ggccaanaag 120  
 ccggcggagg aggagccgc ggccgagaag gcgcccgcg ggaagaagcc gaaggcggag 180  
 aagcgggtcc ccgtggcaa gtccgtgcc aaggaaggcg gcganggcaa nanggggaan 240  
 aagaagggca agaagagcgt ggagacctac aagatctaca tcttcaaggt gctgaagcan 300  
 gtgcaccgg acattggcat ctctccaag gccatgtcca tcatgaactc cttcattaac 360  
 gatatc 366

<210> 44626  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-048-Q1-E1-D12

<400> 44626

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gttgggtcaag gcaacttgaa acttcaatat aatgaagctg gaaaattatc cctgtactcc 120  
gatagtaaga ctatgggtca agcaaacttt gagcagaaat acaagtatta tattggacag 180  
gatggaaatg gaagtgatcc tcaggcttct ggagcataca tattccgccc taatggcaca 240  
gttccaatca gtactgatgg gcaggtttct ctacagttc tgcgtgggcc catattggat 300  
gaagtgcnac agcagataaa ttcatggatt tatcagatta ccagggttta caaggagaag 360  
gactttttgg aaactgaatt tatagttggg cccaatacag tagatga 407

<210> 44627  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-D2

<400> 44627

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atagagactt caatcaactc catacgtata aacatgaagg ttaagcaggc agatgaattg 120  
gagaacattc ttgccaagaa gttccttaag tttttgtcaa tgagggcaga ggcattccaa 180  
gtgttgagga gaaaaccggt tcaagtttcc aacttaacat tgattacctt gagcagtgtt 240  
ttatgtctcc aataggtcct agtaaactg aactacctgt aaggcacagg gatacatcgt 300  
tgtggacaac tggatgatgg a 321

<210> 44628  
<211> 366  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-048-Q1-E1-D4

<400> 44628

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cgcgccgctg gcgacgtcgt ctcgttcccc gcgaccgtcg ccgccttcgt ggaggcgctg 120  
ctccagggct gggccgagggc canggccggg ctgctggtgc cgctgctccg cgccgcggtg 180  
ctgctgtgca cggccatgtc gctgatcgtg ctggccgaga aggtgttctt gggcgcggtc 240  
agctccgtgg cgaagctgcg gcgcccggcg ccggggcggg tgtacaggtg cgaccccgac 300  
gaagaggcgg atgcggcctc ctgngcctat cccatggtgc tcgtccagat ccccatgtac 360  
aacgag 366

<210> 44629  
<211> 366  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-048-Q1-E1-D6

<400> 44629

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accacccggc aaacgccgcg caacgcacca cactgggctc ctcgacagtc gaaactcgag 120  
agcccaatcg ttaccgaccc gattcggaag gaggggttgtt gcctcacccc ctctgggttcc 180  
ggcgcccatg gcggtggcgg tacctggcca gctcaaccta nacgaggccc cggcattgggg 240  
ctcccgcagc gtcgactgct tcgagaagct cgagcagatc ggcgagggca cttaccggca 300  
agtgtacatg gcgaaggaga cgggcaccaa cgagatcgtc tcgtcaaga agatccgcat 360  
ggacaa 366

<210> 44630  
<211> 453  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-048-Q1-E1-B10

<400> 44630



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 aggcgcgcgc gccggtgggt gactacgagc tgctggagcg cctggggggg cgtcccccg 120  
 ggacgtgggt gtggcgancg gtctcccggt ccaccggcgc gcccggtggt gtgaagcagg 180  
 tgcggctcac cggcgctccc gcgcgcctcc gcgacagcct cgactgcgag gtccgcttcc 240  
 tcgccgccgt cagccacccc aacatcatcc gctcatcga cgtcgtccag acccacagct 300  
 gcctttacct cgtcctggag ctctgccagg ggggggacct ggcggccttc atccggccca 360  
 atgggagcct taactagcgc ctggccagaa attttatgaa acagatggga gctggcttac 420  
 aagtgtgca ccggcagcat gtcctccacc ggg 453

<210> 44631  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-048-Q1-E1-D7  
 <400> 44631

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 gccgcctagc tcgttggcag cagcgccggg cggcccccg gccggcctgg tccgggggtac 120  
 aggggcagta agaaactttt gcagaacaag agagagacc tgaatgtttt tgctctcggt 180  
 cagtcgttct ctctcttct ctctctcaca cacagaaaca cacgcagaat ggcaggagag 240  
 agagagagag agagatagaa agggatgtat gaaagatcta gcaagaagta ttcttcgtta 300  
 catgtataca agacatggca aatgaagcat cggatgatggc aaatcatg 348

<210> 44632  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-047-Q1-K1-G10  
 <400> 44632

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 ctttaacatt acaaacgcac ctaacaacca agcagcaacc caaatatcca ataacttcca 120  
 cattatctca ctttttaacc cactgatcaa cttacactat ccacatataa cacactatct 180

aataacaaaa actctaccca acttcactac taatcattct aaacttgta attacataac 240  
atactacatc actatcaact aatacacatt c 271

<210> 44633  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-G2

<400> 44633

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gcttggaagg cccttgccat ggccgtacgc tgccgagctc caagctccaa ctccgatctt 120  
tctccctcgt ctctctccc acgagctcgc accagcctct gcttcctgct cggcatggcg 180  
cttggaatcc agctttctgc gcaccgctc cttgctccag ctcccacgcy cgtccgagct 240  
cgccccggct ccagcttctc ccaaggctgg cgatactcca gtcctctgcy cagcgcgcac 300  
gcttagcttg cctctcttgc gcgcagctct ttgttcttgc gtgccacaat cctccagctt 360  
ggttgccg 368

<210> 44634  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-G3

<400> 44634

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gtccccaggg agtcccctct gggtttgacg agattcatat agatacatat atttaatttt 120  
tcccccttct gtttgcctaa aaaatcaatt gtacaggcga aactgcttgt ttgtgctttg 180  
tttcttccgt gtttgtttcc ttgggatttt cctctggtcc gttcttcttc acctgtgggg 240  
tgggaggagc agagacaatc atgggaaagc aaggaccctg ccgtcattgc ggagtcacaa 300  
gtactccgct gtggcggaat gggccaccag ataagccggt gctctgcaat gcgtgtggct 360  
cgagggtggag aacgaagggt tcaatggcaa actacactcc aatgcatcgc aatgacaata 420  
ttgatgatg 429

<210> 44635  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-047-Q1-K1-G4  
  
 <400> 44635

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cagatcaaat tcttgatcac ggattcagaa accagggttg tgctatcatt tctcagattc 120
ccaaagttag acaaacttta ctgttttctg ctacacaaac gaagtcagtt aaggaccttg 180
caagggtag cttaagggat cctgaatata taagtgtgca cgaggaggcc agaacagcca 240
caccggatac ctttgagcag tatgccatga ttgtacctct tgagcagaag ttaaatatgc 300
tctggagctt cattaanagg catctaaatt caaagacgat agtcttctta tctagtgtca 360
agcaggtcaa atttgttaat gaaattttaa 390
  
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<210> 44636  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-G5  
  
 <400> 44636

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gtaccagatc aaggtctact gtgtgacttg ctttggtcag atccaggaaa agatgctcaa 120
gggtggggca tgaatgatag aggggtctca tatacctttg gtgctgacaa ggtttcagaa 180
ttcttgcaaa agcatgatct tgatcttatt tgctgtgctc accagggttg cgaggatggg 240
tatgaatttt ttgctgacag acagcttgct accatattct cgcccccaa ttattgtggt 300
gaatttgata atgctggtgc aatgatgagt gtccatgaaa ctttgaagtg ctcaccccaa 360
attctgaaac ctgctgagag aaaaacaaat ttatgggggtc caacaaaatg 410
  
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<210> 44637  
 <211> 356  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-G6

<400> 44637

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gaatgcaata attagaaatt gactgggttg ttaaaccatt tatatcccta cactataatg 180

acataacgca aactataatt tagatcatgc tggacagatc tcactatcta gcaatcgaca 240

ctaatagaact tcttatcata cgacatctgg acatacgatt acacgatatc cttctattaa 300

tattcaaatg atgactcatc ttctattcaa aatttacatt gatactttga atttac 356

<210> 44638

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-G7

<400> 44638

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gcactttatg aggetcaacc atcataactt catcaatgaa atccagactc acgattcaaa 120

gaatgcaata cgttacaatt gcctcgtttc ttgaaccatt gagctaccta cactataatg 180

acataacaca tactatagct tagatcatgc tggacagtgt cactatctag taatcgacac 240

taattaactt catatctgac gacattggta cat 273

<210> 44639

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H11

<400> 44639

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ggattcatct catgagctac gtttatcatg aagatgttga catgtccatc cttgtcttgc 120

tcgactcttt tatttcgact c 141

<210> 44640  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H2

<400> 44640

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ctccacaacg ctgctggcat cactgcgga ctcagccacc aagccctgac attgtagcca  180
gtttcctgca attagaacga atgccagttg gtaaccattt aacatttctt ttgctgtgtc  240
aacttattgg agttggagag aggtatcac tatactaacc tttatatcat caggattgac  300
ataaatgtga ttacacgta gatacaagtt tgtggcagag attgctctga cacaccaatc  360
agtcttcgat g                                     371
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<210> 44641  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H3

<400> 44641

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ccaagaacct ctacatcatc tccgtcaagg gcatcaaggg ccgcctcaac cgctcccgct  180
ccgcctgtgt cggcgacatg gtcatggcca ccgtaaagaa gggaaagccc gacctcagga  240
agaaagtgat gcccgcgctc atcgtccgcc agcgcaagcc gtggcgctgc aaggacggtg  300
tctacatgta cttcgaagat aatgctggag tgattgtgaa tccaagggt gagatgaaag  360
gttctgcaat cactggacct atc                                     383
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<210> 44642  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H4

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ccttatgttg agcgcacatgca ttgattgttag gcttgacacag ttttgtggaa gaatcagctt 120  
ggaatgaaat ataagctgtg caccatatat agttctagtt cgctctgatt tagtcaggcc 180  
aagtgtagtt tggtagccgg atagtctatg cttggaaact atttattgtg attgtgataa 240  
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<210> 44643

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-H5

<400> 44643

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tccactcgct tcgtccccct tcggatcgcc ctacagagtaa cagtctagca gagcaagcat 120  
gtcgtcgtcg gcggagaacg accccacggt gacggtgacc gagcgcggag gcaaggacaa 180  
gcacgaggac ggcggcgaca aggagcaggg cggcggcggc ttcacgcaca aggtgaagga 240  
cttcacccac gacatcggcg agaagatcgn agaggtcgtc gggttcggca agcccacggc 300  
cgacgtgtgc ggcacccaca tcccgcacat cagccttcac cgggccgacc tcgtcgtgga 360  
cgtgctcatc aagaaccga acccggtccc gatccc 396

<210> 44644

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H6

<400> 44644

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tgatgaacaa tcctgccaac ttgctaagc accaagcgaa tcctaagggtg ggccctatca 180

tcgcaaagat gatggccaag ttcaatgggt cccagtgatg gttatgtcg agtcaggttt 240  
 tgtgagcagc aagcaaaggt ttgttggaca gtgaacaggt gttcttttcg tgcattctggt 300  
 ctgggagtgt gtttagcttg tgatgaagaa catgagtgtg tgtgttggtc gtggtgcac 360  
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<210> 44645  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H7

<400> 44645

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 gctcttatct caaggactcg gagaagcagg agatgtaccg gctgcacaag gaggaccccg 180  
 cgacttacac cgtggagcgg ctgcgaagg acttccgtgt catgacacag cgcgtgcacg 240  
 ccattctctg gctcaaggag atggaagagg aagaggagag gaagaggggc cagccgctcg 300  
 acgactccat cgaaatcctg ctgcacagct gccagagtt cttcaattct catgacaggg 360  
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<210> 44646  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-A12

<400> 44646

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 gccatgctta aggatggact ttgggatgta tacaatgact gtgccatggg aatgtgtgcc 120  
 gaactttgtg ctgacaatca tgccctcaca agagaagacc aggatgcttt tgctatccaa 180  
 agcaaccagc gtggaattgc tgctcgtgac agtgggtgctt ttgcatggga gattgttccg 240  
 attgaagttt ctgttgggag aggaaaacca cctgtactta ttgagaaaga tgaaagcctg 300  
 gataagtttg acccagcaaa actgaagaaa cttcgcccaa gtttcaagga gaatggtggt 360

accgttacag ctggaaatgc ttctagtata agtgatgggg cggtgcatt atttttggtg 420  
ag 422

<210> 44647  
<211> 345  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-048-Q1-E1-A5

<400> 44647

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taccacaaaa ctagtgacga cgcggctagt ttctacgttg tatatagttc ttgctgcaga 180  
ccgcgtttgt gtttacgaaa gatttcactt ttaagttttc tgtgttaact ataattgtat 240  
gatttgccgg ctctggccgg cccggaatac taaatgggca gtgctattcg ggccagcccg 300  
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<210> 44648  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-A6

<400> 44648

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atggtcggct tcgcgccgt gacgtcaagg ggggtcccaac aataacgcgc cctgaacgtc 180  
ccggagctga accaacaat gtgggacgcg aagaacatga tgtgcgccg tgaaccgcgg 240  
caacggcgct acctgacggc gtcggccatg ttccgcggga agatgagcac caaagagggtg 300  
gacgagcaga tgctgaacgt gcagaacaag aactcgtcct acttcgtgga gtggattccg 360  
aacaacgtga agtcgagcgt gtgcgacatc cccc 394

<210> 44649



<211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-G1  
  
 <400> 44649  
  
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 aggagaaaac aaagggggga taatgtgtca tccagatgga cccaaccaa gaaatagaat 180  
 ggaataaaat taaaggcggt gaacgagaaa aaaatgcac aaattattga catcaaaata 240  
 aataccggtt cgtcatggct gacacaacta gtgaggaacc tgccacaagt gaacagacaa 300  
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<210> 44650  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-C9  
  
 <400> 44650  
  
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 tactgagctt aatagcagcg atgggtgtcaa tgccaccatc tttttcacc aagatgtaca 180  
 tgcccctacc gctgtcaccg taagtgtctc tgtcctcaag cctgtcctcc atggatttca 240  
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 tt 302

<210> 44651  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-D12  
  
 <400> 44651  
  
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catttcgttg ttgagatcga gtcgctcggt gacgggaccg atttctcgga gccgctgacc 120  
 cgtgccaggt ttgaggagct gaacaacgac ctcttccgca agaccatggt ccctgtcaag 180  
 aaggccatgg atgatgctgg ccttgagaag agccagatcc acgagatcgt cctggttggt 240  
 ggaagcacca ggattcccaa ggtccatcag ctctcgcgga actacttcga cggcaaggag 300  
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<210> 44652  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D2

<400> 44652

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 gtatgccgac ccggtggcga tgctcgagta ccgggaacac ctggtgagag agaagtggat 180  
 ccagatcgag accgccaaga tcatccggga gcgcctccgc tgggtgctacc gcatcgaggg 240  
 catcaaccac caccagaagt gccgccacct cgtcgaccaa tacctagagg ctaccgcggg 300  
 cgtgggttgg ggcaaggatg cccgcccgcg tgaactccac gagccaaga agaccgtcaa 360  
 ggcgagag 367

<210> 44653  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-D3

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 gcgcgacaac atccagggca tcacgaagcc ggcgatccgt aggctggcca ggaggggagg 180  
 cgtcaagcgc atttctgggc tcacttacga ggagaccgac ggcgtgctca agatcttctt 240  
 cgagaacgct atccgcgacg ccgtcaccta caccgagcac gcccgccgca agaccgtcac 300

cgccatggat gtcgtctacg cgctcaagcg ccagggccgc acgctctacg gcttcggcgg 360  
ctagggcgnc ttcccttctg atgctttgat gtgacggcgg tggtcggttg tgtgtcta 418

<210> 44654  
<211> 210  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D5

<400> 44654

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tactcgtgcc agctttgatg agcctaacaa ccacctatct ctcaagacca tgtacccttt 180  
caagaaggta atgaacgatg ctgtccttga 210

<210> 44655  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D6

<400> 44655

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cctgctgaaa aggaccattc ggacgcagtt tcccagattt ctgaaattaa cacagcattg 180  
gattctctgt ggttggagtt gagcaactgc ataagcaaga tagaaagctc ttcagagtat 240  
gcatcaaata taagtccctg ttctgcaagt gcagctatgt taacaacagg agtagcacct 300  
ccattgcctg caggaaactc aaacttatta ccatatatag aatcattttt tgtgacatgt 360  
gagaagttgc gtccctgggca acctgatgct gtacaagatg cttcaacttc tgatatgga 419

<210> 44656  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D7

<400> 44656

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ggacacctac ctcggcgagc aaaagggaaa acgctgatcg gagcagcgaa gcccgagcc 120

atgccgacgg cgacggccac ggccacggca gctcctcgcc acgcgggcgt cttactgccc 180

ctgctgctgc tctgctcgg cctccacgcc acgtccgccg gcgccgcg cgcgggcgtc 240

gccgtggacg ccgagctcac gttcaccaag cegtacccgg tcccgaagaa gcccagcgtg 300

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<210> 44657

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D8

<400> 44657

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gccgatgaca acgaccattg acacgcaaat tcttagattc ccgaaactca cactgccttt 180

gattctgttc ctgctcagct tacacactac gtacaccttc tccaaacgct cttacattat 240

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tccattctat cacgaactca aaacttatta ctatatatac tattattatc c 351

<210> 44658

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 44658

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ccgaccagca aaagcaacgg agggaggggt aaaacctttc gttttgaagc aagggatgag 180

cgcgaaagcc gttgcgcttn cgtacacgcg cataactcttg ctccgtcgcg cgtttaggtta 240  
 ggtagtagtact tagtacttaa cttagtagtaa taacgcgcag ccgttttggg cggacacggt 300  
 tctctaaagg cgaagactct gaagtgggcg aacaactcgc ccagcgggcg aacattgccg 360  
 ctccggcttc gcgcacctgc tgacaccttt cgaagcactt tcacgtgtga accgaagtcg 420  
 tctt 424

<210> 44659  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-047-Q1-K1-E10  
 <400> 44659

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 gacccgtgcc aggtttgagg agctgaacaa cgacctcttc cgcaagacca tgggccctgt 180  
 caagaaggcc atggaggatg ctggccttga gaagagccag atccacgaga tcgtcctggt 240  
 tgggtggaagc accaggattc ccaagggtcca gcagctcctg cgggactact tcgacggcaa 300  
 ggagcccaac aaggggtgtca accctgatga ggctgttgcc tttggtgccg ctgtgcatgg 360  
 aagcatcttg agcggcgagg gttgtgacta gaccaagata tccttcttct tgatgtggc 419

<210> 44660  
 <211> 269  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-047-Q1-K1-E5  
 <400> 44660

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 gtggtattta gccacctcca gggaacaaga agaatgacgt ttgctcttgc aggcattgctc 120  
 tacggaaagc tcaaagccag ctgcatcatc aaattataag gatagagaat ctcgagctta 180  
 tgctgaaata tgaccaacat gattggaagc tccataacag acaaattggaa tcaaattctga 240  
 ctatgattca aaagaaggct tgtataata 269

<210> 44661  
 <211> 212  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-E6  
  
 <400> 44661  
  
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 acttttggag ccacctccag ggaacaatat tattgatggt tgctcttgca tccatgctct 120  
 acgtaatgct catatccagt tgtatcatta tatcatactg atacattatc tagagcatat 180  
 tctataatat atcttaaatac tttgtaaact tc 212

<210> 44662  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-E7  
  
 <400> 44662  
  
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 tttcattcag tgccaacaag tgccaagtgc tcgtgtccgg atgcgccagc gccgcctggt 180  
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 gaagactcgg agctcagcga gaggggagcc gaggcgtctc ggaaatgcgg ctcttctggt 360  
 gctcatgctc tgctccgtcg tcgcgctctc cctcatccgg gggagattcg cccaattgt 420  
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<210> 44663  
 <211> 180  
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 <213> Zea mays  
  
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 <400> 44663

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<210> 44664  
 <211> 271  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-F12

<400> 44664

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 atctttcteta tctcaatcat gcttttcaag aactataact gcatcaatca atcacactat 180  
 aactcaatcc acttttaaatt gcatactttc tacattaaca atgtctacat ttcactttac 240  
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<210> 44665  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-F5

<400> 44665

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 taactaaaag acatacttgg ttacactttc cgtcacgttg tacaatttat catctctcgc 180  
 gcacgcatgc tttgcaagcg caataactcc gacaaccatg cccacgacaa cttgatccac 240  
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<210> 44666  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-F6

<400> 44666

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taactaaaac actcacttgg ttacactgcc catcacactg aacaattcat catctctcat 180  
gtacgcatgc ttctcaacaa caataactcc aacaagcagt cccacgacaa cataatctac 240  
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<210> 44667

<211> 234

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-F8

<400> 44667

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tcgccttccc attacgggct tcccatatct cattcagtac caacaagtac caactgctcg 180  
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<210> 44668

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-C8

<400> 44668

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caacaaatgt gaccgtctct gtttctatca tccccttcat cactctgctg gtctccctca 180  
ttcacctctg gtcttaggcc atggccttca gcgcctaccg gctcatcaag tgcgtcacag 240  
agggagacgg cgccgtgtta aagacctgca tgctcatctg ctacaccagc agcaagatcc 300  
ccactgatta cataccaact gtcttcata actctagtgc aaacgtggta ctcgacgata 360



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<210> 44669

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-A6

<400> 44669

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aggacgacga cagggaggag ggcgagatca ccgacctcgc ctgcgctcct tccccgccc 180

ccacgcaccc gctcgagcac tcttggacct tctggttcga caaccgcag agcaagtcca 240

agcaggccgc ctgggggagc tccatccgcc ccatacacac cttctgcacc gtcgaggaat 300

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<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-B1

<400> 44670

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gaacgtatag ggcttgcgca acgccagccg gacgatccac atgatgttgt tcctcgaagc 240

agggcaaggg cgccgcattc gatgcgacga gcggtgcagtc tgacgtcgcc gcgtagaccc 300

agccctgact ggaagattac gaaactgcta tctgcgtgcc gcagcctcag atttcggaat 360

tgtcattc 368

<210> 44671

<211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-B11  
  
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 gctgtcgtc tgcttattag cagcaatcgc ttcaagatca ccatcttttt cacccaacag 180  
 ggagatggcc ctactctctg tcaccggaaa cgtctctggc ctaaattcctg gcctccatag 240  
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 ca 302

<210> 44672  
 <211> 245  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-B2  
  
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 ctatt 245

<210> 44673  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ggtggacgag cagatgctga acgtgcataa cangaactcg tcctacttcg tggagtggat 360  
 cccgaacaac gtgaagtcga gcgtgtgcga cattcccccc acgggcctgg cgatggcgtn 420  
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<210> 44674  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-047-Q1-K1-B5  
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 acaaatctaa ataaattggc accaaaatta tgtacttgca gtgtgtctat ttaccattca 180  
 ctcaattact cagccaata ataaggatgc aatttttgag cataactcaa ctcatcatct 240  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-047-Q1-K1-B6  
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 cagtgatatc aggtggccat cacggtggga tgcatacctg aagatggagg gttcgaagat 180  
 tcactggttt tcaattatga actctttgat ggtaattcta tttttggctg gcattgtatt 240  
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ggcccaagct cagatgaatg aggagctctc tggttggaag cttggtgttg gagatgtctt 360  
cagagaacca accttaccg 379

<210> 44676  
<211> 377  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gctgttgctg tgcttggttag cagcgatggt gtcaagggca ccatcttttt cacccaagag 180  
ggagatggcc ctaccgctgt caccggaagt gtctctggcc tcaagcctgg cctccatggg 240  
ttccatgtac atgcacttgg tgacaccacc aatggatgca tgtcaactgg accacactac 300  
aatcctgcga gcaaggagca tggggcacca gatgatgaga accgncatgc tggatgatctt 360  
ggaaacgtga caagctg 377

<210> 44677  
<211> 317  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-B9

<400> 44677

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aaatccctgc acgatctcaa cttgtaacac tttctactgt tgaacggatt attatgcgat 120  
ctgtttatga tctgcattct cttcaacatg aacttaataa agtctatcct cataatgcct 180  
aatctatcta tcaattttta ctgaacttta catctcttgg atcaagatat tcttcattca 240  
cttttattct tgattatcct tcatgaaaca tctttatcta aaatccgcat tctccgcttt 300  
tatatcctat actatct 317

<210> 44678

<211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-C11  
  
 <400> 44678  
  
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 gacaacatcc atacgagact cttagactat taccaatacc tgtcaaattc tatatcatcc 120  
 ctactactct tctacaacaa tccacaacaa atctgaccta ctctgcttct ctcattcccct 180  
 tcatcactct tcttatctcc ctattccatc tctattctag gccatgacca tcaactccta 240  
 ccgactcatc aagttcttca cagttttata cttcacgcta taaaatacca tcatttctcat 300  
 attctacacc atcaacaat 319

<210> 44679  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-047-Q1-K1-C2  
  
 <400> 44679  
  
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 agctgtcccg ggaggcctgc acacacgcgg cgcagaacga gcgcctcccg ctccgcgtca 120  
 tcttgcaggt cctcttcttc gagcagctcc agctgcggag ctccatcgcg gaatgcctca 180  
 tgatctcaga gccctagac ggcggctgcg gtggcttctc gcggcagctc ggcggcctgc 240  
 ctgtctcggg cgagcacctt cgtggcgctg gctggcccct ggccgccagg gagaaccaga 300  
 cgctgcggga aggcattggac agcatgaatc agcgcgtgtc ggatctggag aaggagtgtc 360  
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 tcccgt 426

<210> 44680  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-C3

<400> 44680

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aacaaatgtg accgtctctg tttctctcat ccccttcata actctgctgg tctccctctt 180  
ccacctctgg tcttggecat ggctccagc gcctcccggt tcatcaagtg cgtcacagtg 240  
ggggacggcg ccgtgggaaa gacctgcatg ctcatctgct acaccagcaa caagttcccc 300  
actgattaca taccactgt cttcgataac ttcagtgc aaagtggtagt cgacggtacc 360  
acggtgaatt tgggcctttg ggatactgca gggcaggaag attacaacag actgaggcca 420  
ctgagcta 428

<210> 44681

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-C4

<400> 44681

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cgcgagttct tctcctgtg ccgcatgggg ctctctgtgg agaagacctg gtctggacgg 120  
gagtacaagg tcaaggatct ctgcagggc gacttcggtc gcctcgagat tgagctggcc 180  
gaggtcgaaa tgcccgccct catggcgtgc cgcgccgagt tcggcccgtc caagcccttc 240  
gccggcgcta ggatctcggg gtctcttcac atgaccatcc agaccgtcgt cctcatcgag 300  
accctcaccg cgctcggcgc cgaggtccga tgggtgtcct gcaacatctt ctccacgcag 360  
gaccacgccg tcgtcgtcat cgcgcgcgac ttggtcggcc ggttcgcctg gaaggtggag 420  
acccttgagg agtactggtg gtgca 445

<210> 44682

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-C5

<400> 44682

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ccgaacaacc ataagccctc caagatcaca agaggagggc ggcaagctcc agcctgccta 120  
ccagagcgcc gtcgtcgccg cagactcctg cgccaagagc tatctgaagg gtgccgctag 180  
tatcagtagt gttccaggc gtaccatcaa gggggataat ggccgaaagg agaagggatc 240  
tccgaggctg tgaaagaggt ggcgcanget cgtgacctgt taggcaaaag aggtagcaac 300  
ggcgccaatg cgactgcaac gtgagatgtc ttagtcatca cgattcaac aatg 354

<210> 44683

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-A5

<400> 44683

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gtggtgcttc ctgcaggcat ggcaatgtat gcctgacagg gcattctctt ggaatgtact 120  
gtcactgttt aaaaaatcag gaatgttatt cttggaagta agtctcatag cctttctact 180  
tcaaggaaat gatgccagcg gttttgaatc tttggcacgg acctttgtta tatctggagc 240  
tgtagttgct gctgatgtat tgctcaagac tatatatgtt tttggcttcg gtgttccttt 300  
gttcattgat actgatcaag gaactagtgg gaaatggggc ctgtggattc tccacaaact 360  
tgtgcttact ggagtctatg ggctgattgt tttcatgcat cattcaagat ggagagac 418

<210> 44684

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-C6

<400> 44684

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gcgatctccg tgaccagtct gattctctat cttcccttct agacttctgc aacaagccac 120  
aacagatgtg accgccactg ttactctcat ccccttcate actctgctgg tctacctctt 180

gcacctctgg tcttggccat ggcttacagc gctgcccga tcatcaagtg cgtcacagtg 240  
gcagacagcg ccgttcaaaa gacctgcatg ctcatctgct acaccagcag caagttacca 300  
actgattaca tacgactg 319

<210> 44685  
<211> 359  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-046-Q1-K1-G12

<400> 44685  
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ttcttttgcg gggtttgtagg tcaaaagctc cgcgagcact ttccgctcca cctcctcacg 180  
ctcggaatca aatcgatgcc ccctgtgat ttggttctctg gtatcggcgc atgagcttgc 240  
tccaagagat ctcccttttg gttcggcgtc aggggttctg tgaggtcacg cggcttcttc 300  
ctcttggcgc tcttcacatg tccgggcgct tcgatctctg cccactgcgc gagtgatc 359

<210> 44686  
<211> 320  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-046-Q1-K1-G2

<400> 44686  
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tggttgtgta ctaacttggc ttctaaaagg ggctgaaacc tcaccggagg cggcagcggc 120  
gtctacgcta gggtttcggc gtgaggatcg cctatgacga ctgctttcag acgtcccttc 180  
cgaggccgcy gcgccatgcc ctccggcacc cgctacctcc gccgaggctc cgccccaggc 240  
tccaacgacg tcgtcaagcc cctgttcaag accgtcttta ccaccgtcga ccaagatcac 300  
ccccagacac acagagacac 320

<210> 44687



<211> 186  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-046-Q1-K1-G3  
  
 <400> 44687  
  
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 acaaagagga anccccntg aacagtggca ctttaaaatt tggcggggac ataacacact 120  
 cactgggcta ctgcttctc ancttttttt tttttttttt tcttccccca cccaaactac 180  
 caaccg 186

<210> 44688  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-046-Q1-K1-G5  
  
 <400> 44688  
  
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 atttcttgta ttagctaaaa ggtctttgaa aacatctttc tgtcaactgc tgcattcaca 180  
 gctagtgcag ctgtttctaa aggcttcaca agataagcgt tttgtctgtg aagctgctga 240  
 ggcagctctt acatcgatga caagttggat ctccccatta ctactgttac caagaatgca 300  
 gccctacctc aagaacagga atccgcgggt tcgagcaaaa gcatcagtgt gtttgagcaa 360  
 gagtgtacct tgcttagatg tgcanggaat cagagaatat ggaatggat 409

<210> 44689  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-046-Q1-K1-G6  
  
 <400> 44689  
  
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gctagcttat cagaaagcag ttgatgatgg cgcanatgtc attgattgcc ccgttcaagt 120  
gaccaaagac ggaataccaa tatgcatgag ttccattgac ctgatgaacg atactactgt 180  
tgcaagatca caatttatct ctcagactgc cagcataaag gatattcaga ttgcacaagg 240  
ggtttttact tttaatctca cctgggatga cattgtaaac aacctgcagc ccaaaatatt 300  
caccatgg tactccttca gattggaccg aaatccgaga tataagaatg caggaaagtt 360  
catg 364

<210> 44690  
<211> 250  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-G8

<400> 44690

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tgactcgata ctggaccata aacagcacca ctagctgctt cactgggtcc ttccggaagc 180  
cccgccagga ctgggtgccc ctccacgtga ccgtcaccgg caccggcacc tgcaccggag 240  
ggaactcacg 250

<210> 44691  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-G9

<400> 44691

tgttggtttt taaatTTTTT ttttttttga ctcaaagcag ctcgatgtca ttatctcaga 60  
agacagtagc tgtgggaacg caatgcgagg cgcagggacc ggacagacac tgctgctacg 120  
actacgagta ggaagaaagc gagaagaata aaagcgagcg aggaaaggga tggcgggggc 180  
accactgccc ggccggcagc gggcagcctt tggatcagaa ctacagtggc aggcgacctc 240  
ctctctctc tctctttctt tctgaaaaaa aaataatgca gatcttccgc aagttcccaa 300  
gacgactggc gacaatgacc caccatgagc acagcaaagc atttcaccgg tttctttctt 360

tttgggttcc t

371

<210> 44692  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-H1

<400> 44692

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taaatacaca gtaccaggag agactatgaa cacttagagc tcggcaagcg aactatagag 120  
atgagttcct gcgcaaggaa tctctagcac gccagcagca ataccagcac gccagcatga 180  
gccattatgc cagcaattcc acggctgggg agcagcatgg ttataaccca acggcagcag 240  
gcacgcctcc tgttgctgct ggaggtgctt atggtgaggc tcatcggggt tatgcttctg 300  
gccagtatga atcatttagc gat 323

<210> 44693  
<211> 335  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-046-Q1-K1-H11

<400> 44693

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gatggccccc agggccgggt ggatttccgc ggcgaggaag cctntnnaag aagaccccg 120  
ggccgagaag acgaccgccg ggaagaagcc caaggcggag aagcgggtcc ccgctggcaa 180  
gtccgccggc aaggagggcg gctagggcaa gcgttgcaag aagaaggga agaagagcgt 240  
ggagacgtac aagatctaca tcttcaaagt gctgaagcag gtgcaccggt acatctgcat 300  
ctctccaaa gccatgttca tcatgaactc ctcta 335

<210> 44694  
<211> 248  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-H2

<400> 44694

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tggtagtgcc ggtgggtggc aaagttctct gggttatctc tttggaagcg gtgagcccc 180  
caaaccagca gtggcaccag ctgcaagtgc tccacctgtt gagaaaccat ctgctgcaaa 240  
gactgatg 248

<210> 44695

<211> 245

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-H7

<400> 44695

aaaaaaattt tttttttact taaacttttc tttttaaatc aaaaaaaaca aaggggntgt 60  
ttcatttaaa aaggcaacga caaaaaaaca ctttttttat tactacaata tnaaaaaatc 120  
tatacaaaat aattttctta ttattcattc ttttttatta ttatcatcct atacattcat 180  
tctattatca tatctactat ttatatcaac ttctctaact attctttttt tttaaaaaat 240  
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<210> 44696

<211> 313

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-H9

<400> 44696

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tgaagaaatc atagatgctc ttgaacaana aatctcaa atgttcagaca aatgggttgc 120  
tgcaacaatc aagtccctga aaaaggcttc ccccaccagc ctaaaaattt ctctgagatc 180  
gataagagaa gggagaacac aaactcttgg ggagtgcctg cgtcgggaat atagagtggg 240

ttgccatgtc ctgcgtggca ccttcagccg agacttgtct gagggattta aggctgtgct 300  
actagaaaaa gac 313

<210> 44697  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-047-Q1-K1-A1

<400> 44697

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gatgtgaaga gggcgcttg catgaatcaa ggggcatctc caccactct gaaaggctgc 180  
catgaggggtg gaaaatagct cacagtcgca ggaagaggaa tagcatcctg ccaacatggg 240  
tgagctgcgg gcgcatcata ccaattccgc ttctgctatg ctccgtccac caggtcacca 300  
gcttgagacc gaggcataca accgccagat tttgtgtttc tcagagcaag tagaactaaa 360  
gcacctcana gatgtaaatt tatgcactcc caaatttagg attttgagcg caatcttggc 420  
agttttcata catgc 435

<210> 44698  
<211> 256  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-A10

<400> 44698

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gaattctctc atggccaacg ggctcctatt gcagtaaggc atatagagtc aatcatatgt 120  
atgtcacacg cacatgcaag gatgcatctg atgagctaca tgtctcacga agatgttgac 180  
atgtccatcc ttgtcttgct tgactctttt atttcgactc ataagttccg tgtgcataaa 240  
gcactttaaa agaatt 256

<210> 44699  
<211> 327

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-047-Q1-K1-A11  
  
 <400> 44699  
  
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 ggacatcaca gaagttatcc gccattcgta caggcagctt ttgctgacaa ctgctggtct 120  
 tgggtgaatat atttctggcg ctattctttt cgaggagacc ctttatcaat caactacaga 180  
 cggcaagaag tttgttgact gcttgaaaga tcagaatatc atgcctggca tcaaggttga 240  
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<210> 44700  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-A2  
  
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 cagctgcccc ttcggttcaa gctgacttat tctgctgagg atgaagcaaa aattgaaagg 120  
 cctgtgatga tacacagggc aatcctaggt tctgttgaaa ggatgtttgc cattcttttg 180  
 gagcattaca atggcaaattg gcccttatgg ctaagccctc gccaggccat tgtttgttca 240  
 gtatcttctg gttcagtgga atatgcgaaa caggttcttg ccatgctaca tgaagctgat 300  
 ttccatgttg atattgatgt gagtgcaggg acaatacaaa agaaggtacg ggaagcccag 360  
 gtagctcaat tcaactacat tcttgtcgt 389

<210> 44701  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-047-Q1-K1-A3  
  
 <400> 44701

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 aggacgacga cagggaggag ggcgagatca ccgacctcgc ctgcgctcct tccccgcccc 180  
 ccacgcaccc gctcgcgacac tcctggacct tctgggttcga caaccgcag agcaagtcca 240  
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 tctgggggct ttacaataac attaatacacc ctagcaaatt gatcgtggga gctgatttcc 360  
 attgcttcaa gaacaagatc gagccaaaat gggaagaccc tatttgtgcg aatggtggta 420  
 aatggaccat cagct 435

<210> 44702

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-A4

<400> 44702

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 tctcccgccc gctgctgccc tccgtccgcg tccagatccc gccaccaacc gatccggcgc 180  
 cctccagcat ggcgggggcg aaggcggcgc gagccctggc tcttgcgctc gtgctcgcg 240  
 tcgcgggggc caactccgag ggcgacgcgc tctcggcgct gcgcgggagc ctcagggacc 300  
 ccggcggcgt tctgcagagc tgggaccca cgctcgtcaa cccctgcacc tgggtccacg 360  
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<210> 44703

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-G11

<400> 44703

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gagatcggcc atgtcgtgcg tatecgtgag cggcacgcga aagccgccgg cgccttcgac 180  
gacgacgatg tccgcacgcg tcagcgcctc gcgatggcac gcgacgatcg tgtcgatgtc 240  
gagcgtcacg ccttcctgcg cggcgactat gtgcggcgcg gtcggcgctt tcagcaagaa 300  
cggcgtgcmc agttcgggcg ggagcacgac gttc 334

<210> 44704  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-C10

<400> 44704

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aaagtactgg gtgttccttg ctcatccaat acagagctcc ctttgggcat ccatgcttct 120  
tgggtgatgaa caaatattat agaacgtcct atatatatgt actagtaaaa aacatctcat 180  
atgaatcgaa ttaagcaaac aaagggggaa aacaattgaa ggaaaggaat gaactttggt 240  
cagctagatg ctatgagcca gcagtgcggt tcgatagatt aggccaccat ctgctcctgc 300  
tccgaccact gcgcaaatat gtcgccggcg tggccgtcct tgacaagaga gttcaccac 360  
gagacgtctg gc 372

<210> 44705  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-C5

<400> 44705

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gctagctata ggtaagaccg taagaggatg atggtggaca ggcagcgcgt gaggcaatgc 120  
gacattgagg tcatgaagat ggccatgctc aagcacgaag aaaccttcag gcagcaggtc 180  
cacgagctgc atcgctgtga ccgtatacag agggagctga tgatgacgac gagtgcgac 240  
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ctgccgctgg gcctgcagct tccggccgac gaggatcat 338



<210> 44706  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-C6

<400> 44706

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ggacggatac atgggggaga gcggcgtcga cagggacgag ggccccgcct tgtgcaaggc 120  
cgctgcggcg gacgggggcg gggatgtggg cgccgcctcc gcccgccgc gccgcccgt 180  
cgggcgtgcc acggaggggc ctgctccgac gaagagaatc cggtcggggg cgcagaggtc 240  
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<210> 44707  
<211> 392  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 44707

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gggtcgttcc gatcggcacc ggaccgcncc aatngaggtc gccgccgtgc ccagatccgc 120  
cgcggcctgc cgtgcggcgc ccctgctccc ggccgttcga gccgctgcgt gccacctggc 180  
cctgccccgg cgcgcgttct ccgcatccgt cgcgggcgga ccggcgccgc gccgcctcgc 240  
cgctcgtngc gctgcggatg gtgacagcgt ggagacggcg ccggaggcgg tccccattga 300  
gaaaaggttc cctcccttcc cgagcgtcat ggacatcaac cagatccgcg agatcctccc 360  
ccacaggttc ccattccttt tggttgatag ag 392

<210> 44708  
<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-C9

<400> 44708

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ccgctgcttc gtcggcgggc tcgcctgggc cacggacgac cactccctcc acaacgcctt 180  
cagcacctac ggcgaggtcc tcgagtccaa gatcatctc gatcgggaga cgcagaggtc 240  
ccgcggcttc ggcttcgtca ccttctccac ggaggaggcg atgcggaacg ccatcgaagg 300  
catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc agtcccg 357

<210> 44709

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-D10

<400> 44709

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gggcgccccg cacatgctcc actactgatg attgctcca ccaaccacac caccatacat 120  
ctgaggctgt cagctggggc tggttggcaa caagacaaga agaattggct gcctctcaac 180  
aacattcaca tctactacct acctggctgc tttgagaatt acagggcctc tactatctgc 240  
tgctgtgtta aatctacctc ctggtttctc caataattgt cgctgttctg tactcttctc 300  
ttatgttctg tctgtcagtg tgtatgagat gatgctcatc ttatgttatg taaggcttaa 360  
tcatgtgtct agntgtactt tctgtcttgg tatgttatca gntatatgaa taataaaggg 420  
ttatgtaagc ttcc 434

<210> 44710

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-D8

<400> 44710

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 cgtagcaagc aagagcagca gggatgccng ctggccacgg gctgcgctcg cggacgcgcg 120  
 acctgttcgc gcgccccttc cgcaagaagg gctacatccc gctcaccacc tacctccgca 180  
 cctacaagat cggcgactac gtcgacgtca aggtgaacgg cgccgtccac aaggggatgc 240  
 cgcacaagtt ctaccactgc cgcaccggtc gcgtttggaa cgtcaccaa cgcgccatct 300  
 gcgtcgagat aaacaagcag gtgaatggtc ccatcatcaa gaagcgtatt catgttcgcg 360  
 tggagcatgt gcaaccgttc cgcttcac 388

<210> 44711

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-D9

<400> 44711

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 gtgcatttta gagggggggc ggcaccacac ctccaanaat ccacctccac gactgagttg 120  
 accgctcggc ggcgccatgg cagttcaccg gctccaacct tcccccttcg gactacagtg 180  
 ctccaccgac cggacgccag tgctccttca tgagccacag ctgaccggtg cacgcaccga 240  
 tggatggtgc atgcatgata ggtggatttg gttgacctag attcgatgtt ctaaaagcga 300  
 cttggaggtg gctgacatct tcaaacactgc aaccattcag ttacaac 347

<210> 44712

<211> 263

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-E11

<400> 44712

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 tcatctgcgg ctatggtaat acattctgaa aatgggtatc aattacctgc atctacagca 120  
 actcaacaac cagtgcacca gagggccact caacagttcc aagcacctca caatccaaac 180

tttatgccaa atcggcacgg attctcacca catttcgggt ctctaaggg tgtttcnccc 240  
caaaaaatca accacttttt ttt 263

<210> 44713  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-E2

<400> 44713

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ggggactcga tctgaccgg aaggagataa gtttgatct atggaagcgg catgcgaaaa 120  
ggggaccagt tcagagacta tgaaacagcg aatagggagg ccaaagaaaa tcttgaagca 180  
aacaatgat agcatttcgg atcgtgacaa ggggtcacat caggagcaca tcgaggccaa 240  
agaggaagtt gatattctgt gtgggaaaga cttgacgcat ttgaaaactc tggagcgtac 300  
cgaggctcag aatagcacia tgataaccaa ggaagtaaac aacaacgaca cagcagagaa 360  
aaacctatcc aagatagagg gagacaactc ggatct 396

<210> 44714  
<211> 335  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-E9

<400> 44714

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gtcgccgtcc cgtgctccct ccgctagttc tcccatttcc ttccccacct cggtcgtcgc 120  
ctccccaga gagcaggagc cgcctcgtcc ctgccggtcc cgaccccgac ccccatcccc 180  
tccgcgtcca acgccatgaa tcccaggtac gactacctct tcaagctgct cctcatcggg 240  
gactccggtg ttgggaagtc ttgcctgctg ctccaggtttg cggatgattc atatctggag 300  
agctatatca gtactattgg agttgatttt aaaat 335

<210> 44715  
<211> 272  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-F11

<400> 44715

acgcccacgc gtccgcccac gcgtccgccc actcgtccgg actagttcta gatggcaaac 60

gggcaaaatt taaaaataa agaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

atgaaagaaa atataaaaaa aaaaaaatta attaaaaaaa aaataaaacg tttatttctt 180

ttttaatagt gcaatttata tttactcttt tgtcccatat tttacatctt tttttactgg 240

gataaaaatt gaaattacct atcttaattt tt 272

<210> 44716

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-F5

<400> 44716

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gtcaactaga gtgaatgatc agtatcttac aaatgtcttg ttaaagatta acgcaaagtt 120

gggtggcttg aattcgttgc tccaaattga aacatcccca gcaattcctc tcgtatccaa 180

ggtcccaact ataatcttgg gtatggacgt atcacacgga tctcctggac attctgatat 240

accgtctgtt gctgctgttg ttagttctcg tgaatggcct cttatctcga aatacagagc 300

atctgtccgc acccaatcac caaaaatgga aatgattgac tcgttggtta agccacggga 360

aactgatgac gatggttctg ttcgggaatg tctgattgac ttctaca 407

<210> 44717

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-F7

<400> 44717

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gagcgaatac tggctggagg gaatggtcac agaatatctt gttgagacat ttgctgatta 120

cttcggtgac gttaaaatgt atattgaaga aagaccattt cgaagatttg tggaggcttg 180  
catagaagaa acaatcgtgg tctatgttga tcatctcctt tcccagaaaa actacataaa 240  
agaggaaaca a 251

<210> 44718  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-F8

<400> 44718

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tttgtttttt tttaaatttg ggtggtcttt tttttttttt attttttttt tttttttttt 120  
tttttttttg caaaaaaaaa aaacacacat taatttccca attttaaaaa agataaaact 180  
tatggtttta attaaattcc aggtaaccaa aaaaaataa aataaatttt ggtcccaaatt 240  
tatgaatttt ttttaaatac aaccacacaa aaattaaaaa taatttttaa attaaaattt 300  
ttatctatac aaaaaattct ttttttttca aaaaattaat aacttttttt tttttttttg 360  
gaatttaacc tcccattttt tttttttccc tttcttt 397

<210> 44719  
<211> 395  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-046-Q1-K1-B9

<400> 44719

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taagtccctt ttgggccttg gcagcatgac cttgaacctg tcaaagtcac tgagcgcagc 120  
cctcctcttc tggacaatca gcttcttgcc ccatgagctg ttttcccact tcgtcttcac 180  
atcagcttcc tccatagcct tgatcagggt tgacttcttg ggaacgcggt tgatgtcaat 240  
cttgatgtca gctcaaaata agtttcgatt acagttgcct ggggagggtca aacttgcaga 300  
ggaagcggat aaattactgg atgggttggg tccaagggtt tctggttggg ggggatatga 360  
tcctgttccg gtggatgctg atctgttgcc agcta 395

<210> 44720  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-E9

<400> 44720

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tccagtttta aaatcaagaa acccaagtgc acctccatca ccaatgcac caaagttgtt   180
cccggagaac catgtttctc gccctgatgg caatggaagt gctagttttc acccattacc   240
gtccctcct gcttctgtaa gcccaaagca gacaaatgct agccaccagt tagttccaaa   300
agctgagatg ccttcggtgg ctggtcaatg gcagaaagga aaactcttgg gtagtggcac   360
ctttggatgc gtgtattaag ccaccaataa gcacactgga actccttttg ccatgaaaga   420
ggatgaatata at                                                         432

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<210> 44721  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-F7

<400> 44721

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cccggcggcg caagcggagc ggctcattct cgcgctcaac ctctgccta aggagaagga   180
ggctgcgccg gccgcaggcg gctgctacgg gccagcgtg gtgcccgggg agctcctata   240
gcgtcgcgtc cggctgccccg                                                         260

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<210> 44722  
 <211> 200  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-F8

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gacccaggcc caagcataga aactagcgt tctctacca gggcgggct tcatccagc 120  
agccatggcg atggcgtaga atatggcgac tgttgggatg aacgtgaagg aggagtgcc 180  
tcgctgggtc atggagatga 200

<210> 44723  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-G11

<400> 44723  
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gcacgtaaat ccctggggcg atgttgaagc tgatgaagca catcaaagaa aagtacggga 120  
atccgcccgt gatcattact gaaaacggca tggatgatgc gaacaaccgg ttttcgaaat 180  
tagaggatga tctgcaggat gataaacgga tacagtacca caaggactac atgtctaacc 240  
tcctagacgc aattaggaat gaaggctgca acgtccatgg ctacttcgtc tggctcgtgc 300  
tctacaactg ggagtgaac tcccgtgtaga cgggtgcggtt tgggtcttac tacatcgact 360  
acaacaacaa ttgacactg ttacccaaag c 391

<210> 44724  
<211> 259  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-G2

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gctttcgggtg aggaagacca aggctgagaa ggacccaaac aagcccaaga ggctccgag 180  
cgcgttcttc gttttcatgg aggagtctct gatggactac atggagaagc cccccaatgt 240  
gaaccagggtt tccttgatt 259



<210> 44725  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-G5

<400> 44725

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tgctgccgtg atatcgaaac tgggtcaaagc tggcgggtgtg agatctgtcc agattttgac 120  
gtgtgcaacg cttgtttcaa aaaaggagcg gttactcacc ctcacaagtt aacgaaccat 180  
ccatcagctg ctgaccgtga cgctcagaac gcataagctc ggcaaagtgc tgttcagcag 240  
ctaagaaaga tgctcgatct tctggtacat gcgtcgatgt gccgggttcgg cagttgccag 300  
tatccccact gcctaaaagt caaaggacta ttccgtcacc ggatgcaatg caaaacgcgt 360  
g 361

<210> 44726  
<211> 191  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-H1

<400> 44726

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tcattgactg aatatgggct cttggaatgt cttcatgaga tgatttttca agttctgact 180  
gtttactgaa c 191

<210> 44727  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-H11

<400> 44727

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catatacggg ttatttgga attttgatca ctctaagaac actcattaac tcataatatt 120  
ctatTTTTga ttcataattc ttacctttca cctcatttc acaaattcta acatttattc 180  
aatcattaat tcttattaac tttcaaaaat caattctata tttctctatt attattgaac 240  
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taccctattc tcatataata caaacatcgt tttttctttt c 341

<210> 44728  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-H5

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atgtcgtcgc aagagtcaag gatattacat caggaaaagg tgtcaatgtc gtctatgatt 180  
ctgttgga aa ggatacat aaggcttccc tggagtgtt ggcgtcccgc ggcttcctgg 240  
tgtcgtttgg gcagtcggca ggcaaacctg acccaatccc aacgagcga 289

<210> 44729  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-H6

<400> 44729  
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ggtgtcctgc aatttcatta gcagaagttc ctagcaaaca agcaagaaat gatcatgagg 180  
cagcagagaa gcttaagttt gtcatttatc aaaggcccaa agcattccaa aatggaagca 240  
ctgatttggg aaacaagaat ggtgcaccaa aaactgttga agagagaata gaggaatata 300  
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ttttggggaa ctctttgcac tggc 384

<210> 44730  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-A10

<400> 44730

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atggactggg tgtggacaag agaagagaaa gagatagcta ttgtcagtca cagtggtttc 180
ttgtttcaca ccttaagcat gtacagcaag gagtgccatc caaccataag agacgaagtt 240
agcaagcact ttgcaaactg cgaagctacg gtcgatgggtg ttggttgaca 290
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<210> 44731  
 <211> 327  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-A11

<400> 44731

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cagtttaggc cggcgtacca cctgaaggt ctatacgatg ataccaagag cagcataggc 180
tcaaacaatg ctggcgagag gccgatgctc cagatgtggc atcgaaatgg caggtgcccc 240
gagggcacgg ttccaatcag gagaaccaag aaggacgacc tgcttcgagc tagctccgtg 300
aggcggtatg gcaggaagcg gcacact 327
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<210> 44732  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-046-Q1-K1-A12

<400> 44732

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acgtcgaata ctgtaggcgc tgaaccgcgc tgggtggcaag gctggaaaca aggggtgctga 180  
agctgctctt acttccgtaa gttacccttc cagtcggaaa tcctgatttc aaacaaacat 240  
agatgcatta gcatgtgaga agcccaagtt cccctgcaga ttgagatggc ctctcttgn 300  
cngcatcact tangctgaca ctttgcataat ttctggttct atacacgagg caagacatca 360  
tttctttct 369

<210> 44733  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-B10

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tccttcgcgc ggcacgggca ccaccagtat ggacgaatca cgaaaaagag ctgtctctac 180  
tgcaaataat gaagactttg gaaatgactt cctttcatct tggaagttac caaaatcagg 240  
aaaagacacg attgacttca gtgttgactc agttcccaag agtagcaaga aattcagctt 300  
tgacaacctg gatgattttg ggcttaatgg agcctttgac aaattaccgt cctttcaa 360  
gggcatgtct gatcttgatt tttctagccc tgacaagaaa a 401

<210> 44734  
<211> 351  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-046-Q1-K1-B12

<400> 44734

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gcggtgttcg cgtacgcgga cgaccctgc agccccaact acccgctgat gcagaagctc 180

cgcgcggtgc tggtcgagca cgcgctggcc aacggcgacg ccgagcgcgc cgcgagagacg 240  
tccatcttcg ccaaggtggc cgagttcgag cagcaggtcc gcgcggcgct gccc aaagga 300  
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<210> 44735

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-B2

<400> 44735

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gctagtcgat gacgccaccg ccgagagtct ccttcggctc ccaccggatg acccagcgtg 120  
cctcgtgcgt gcctcccttg tctgcaaggc ttggcgggag ctctctctta gccccatctt 180  
cctccgcgcg taccgcagat tccacggcgc gccgcctctg cttggtttcc tctacaacat 240  
ctacgacgaa cgcccctgtg ctcgattcgt cgtcgccgcc gacgccgcca ccgcttncc 300  
cttctctgca ccggcgcttcg atcaattcga tttgtggttc atcgagtgcc gccacgggag 360  
cgccctgcta caaactttcg agcgacatgc g 391

<210> 44736

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-E6

<400> 44736

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gaagcatcta cactagaaaa ggagaggact gccgcgttgt tgcaagagaa cgagaagctg 180  
aagaagcagc tggagaagct gaggaagaag cacgagatgg agctggagac gatgaatgtg 240  
caccttgccg agagccggct gccggagtcc gctttgggtg ctttctacca ccacgagaac 300  
gagaggacgc ctgacgacga tctgttctgg cgggccgtct tcgcttttgc gtacagtgc 360

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<210> 44737  
<211> 372  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-046-Q1-K1-B3

<400> 44737

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ccacggctta agtccctttt gggccttggc agcatgacct tgaacctgtc aaagtcactg 120  
agcgcagccc tctcttctg gacaatcagc ttcttgcccc atgagctgtt tccccacttc 180  
gtcttcacat cagcttcctc catagccttg atcagggttg acttcttggg aacgcgtttg 240  
atgtcaatct tgatgtcagc tcanaataag tttcgattac agttgcctgt ggaggtcaaa 300  
cttgagagg aagcggataa attactggat ggggttgggtc caaggttttc tggttggtgg 360  
ggatatgatc ct 372

<210> 44738  
<211> 225  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-046-Q1-K1-B8

<400> 44738

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cgcccagagt ctccttcaac tcccaccnna tgacccaacg tgctcttgc gtgcctccct 120  
tgtctgcaaa gcttggcggg agctcctctc tatccccatc ttctcccc gctaccgcaa 180  
atttcacagc gcgccccctc ttctttgttt tctctacaac atcta 225

<210> 44739  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-G6

<400> 44739

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gatgactgcg agggcgccct caacgagcag atcaacgtgg agtacaacgc ctctgatgca 120  
taccactccc tcttcgccta tttcgaccgc gacaacgtgg ctctcaaagg atttgccaag 180  
ttcttcaagg aatccagcga cgaggagagg gagcacgctg aaaagctcat ggagtaccag 240  
aacaaacgtg gaggcagggg gaggtccaa tcgattgtga cgcttttaac cgagtttgac 300  
caccctgaga aaggagatgc tctgtacgct atggagctgg ctctggccct ggaaaagctg 360  
gtcaatgaaa agctgcacaa cctgcatggt gtggcaacaa ggtgcaatga tcctcaactg 420  
acagacttca tcgagagtga gttcctcga 449

<210> 44740

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-G7

<400> 44740

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gggcactgca agggcggcaa gggcttaggc aagggtggag ccaagcgcca ccggaagggtg 120  
ctccgcgaca acatccaggg catcaccaag cgggcgatcc ggatgctggc tcggaggggc 180  
ggcgtgaagc gcatctcggg gctcatctac gaggagaccc gcggcgtgct caagatcttc 240  
ctcgagaacg tcatacgca cgccgtcacc tacaccgagc acgcgcgccg caagaccgtc 300  
accgccatgg atgtcgtcta cgcgtcaag cgccaaggcc gtaccctcta cggcttcgga 360  
ggctaagcgc ctcttcgtag ctggggaatg cttagggtga tacgtctctg tcgctagggg 420  
tcgtactgtt gctgcattcc tggatgt 447

<210> 44741

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-G8

<400> 44741

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tcgccctcac ctgccctagc cgcacgaggg agcgttcgcc gccccgcccc gtcctccgt 120

ctaccgtcgc ctgccccacc gcgctccgtc tgccgcccct ctctgagaa atgtctgagc 180

atctctttga ggacaccttc gtcgtcacta gactcgaccc tgatggcaaa aagtttgata 240

gagtttctcg tgttgaagct cgcagtgagc atttagatat gtatatgcag ctagatgttg 300

ccacagatgt ttatcctatg catgcttggt agatattaac atggttatag cgcctactct 360

gaatttgat 370

<210> 44742

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-H12

<400> 44742

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tcagcaggtg acagtgaagg ggtcatcaat gcagcagggg tgaaaaatga tatatcaact 120

gacagctcca aggattcagc tggttccacg gatttgatat caggcagagc aaaggaagat 180

ttgcatcgtg ggcacagaat agcaacttgt gccagtgtg atataagctc atggagcatg 240

tcaatcccta atgaatgtga aggaactaca gaacagttat ctgatggctc agacaaattg 300

cctttgcgta agatagcgaa aacatgtgct ttgac 335

<210> 44743

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-H2

<400> 44743

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cgcggaacct tcatactcca agtactagat taatcaacca atgtacccaa tatttaccct 120

cttctaaaga caccatacta tctgcctctt ttatcctaag tatattaagg cctcagcact 180



acacattacg aactgccatg caggaatttt tcaacaattt gacttataaa tcgtcgtgtt 240  
 caaaatacac aaatctgtca ataataatac gcattttcca ctgacgtgtc ttacttaatt 300  
 ggccacccca tattttctt 319

<210> 44744

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-H6

<400> 44744

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 cttcgccttt ctcaaatga gatgagatgt agcgctccgg ccctatgtcc gtttcctttt 120  
 ttatctttta gctatgtaat tttgctacca tgtgtccatc taccatactg atagtacctc 180  
 ttattatggc tgctatgcaa ggcatacca tggttttgtt tgatgaaaaa aaattaaaaa 240  
 caaatctcaa aactacttca atcacatcac atacaaatat ataacttgaa ttaaaactat 300  
 aagactcact tcaaatgtat aaaaaaaagg ggctcccggt ttaaag 346

<210> 44745

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-H7

<400> 44745

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 atcatcacgg tgtatgtaac ttttcaatca taccctcact aaatctcaac tttctccttc 120  
 tgcgatcagt tctagcaatc cttcatcagt atagttatat ctgtcattgc acacattcta 180  
 tacaccacaa gttcttttac ttcattcttt cttgatgtaa cattctcatt gaaccaaact 240  
 atatactgct aatcaaagtt catccacata taataattag tttccccaac atgtacatca 300  
 cttaaattta tctcattaaa cctttcacaa aaccaaact taaatttcta ccttcttttt 360  
 ctataacatt aattataaat tatctatcat tctattaaac atatttcatt catttct 417

<210> 44746

<211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-044-Q1-K1-H8  
  
 <400> 44746  
  
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 gtcgtcaaaa aaaaaaaaaa gagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat 120  
 aaaaataaaa aaaaaaaaaa aaaataaata aaaatagaaa ataaactaaa caccataaaa 180  
 acaaaaaact taatatgata aacaatggaa cattcacatt gaaccaaaca gagaactgtg 240  
 aattaaagtg ctcgatataa aataattaat ttggctaaca ggtaca 286

<210> 44747  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-045-Q1-K1-A10  
  
 <400> 44747  
  
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 gcgcccgcggg ctctctgccg tccttctcct cctcgagtaa gcggctggaa gggaaggtgg 120  
 ccctcgtcac tgggtggcgcc accggcatcg gcgaggccat cgttcgcttc ttcattggagc 180  
 acggcgccaa ggtctgcatc gcggacatcc aggatgaggc cgggcagcag ctgcgcgacg 240  
 ccctgtgagg tgacgcgcag ggcgccatgt tcgtccactg cgacgtgacg tcngaggagg 300  
 acgtgagccg cgccgtggac gctgcggcgg agcggttcgg cgcgctggac gtgatggtga 360  
 ataacgccgg cgtgacgggc accaaggtga cggacatncg gaccgtggac ttcgcggaag 420  
 cgcgcagggt gctcgacgtc aacgtgcacg gcgtgttcct g 461

<210> 44748  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-045-Q1-K1-B7  
  
 <400> 44748

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gagctgaaga ttgcctgca gaccatggaa caacaagtcc acttacaaga tgctttgaat 120  
gacaccctga aaacagaggt ccagcggctg aaggtggcaa caggacaggt gggcaatggc 180  
ggtggaggga tgatgctgaa ctttggggcc atgccacgcc tggtcggagg caaccagcag 240  
atgttcaca gcagccaagc gatgcaatcc gtgctggcga cgcaccagct gcagcagctt 300  
cagcttact cccagcctca gcagcagcaa ctgcactcgc tgcagcttca acatgtggcg 360  
agag 364

<210> 44749  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-C12

<400> 44749  
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gcgcccgcgc acgtcggcgt gcgcgcgctc tacagaggcg cgtccggcga cacctggggc 120  
tggggcttcc gcgccttcta ccccgtcgcg catgtcacgt tcgccaaccc cggcgtgcat 180  
gaggaccccg cgtgcggctc gctgcttgac gccgtcgcca tcaaagagct gccgcgcgcg 240  
taccgacca aatacaacct gatcaagaac gactgctttt aaatccgttc ccaagtgtc 300

<210> 44750  
<211> 483  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-C9

<400> 44750  
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cttgatctct ccaatagtaa tctgcttggc tccatccctt cttgtttaat ggaggatatg 120  
agtaacctca atgtattaaa ttgaaagga aatcaacttc atggaagatt accaaatagc 180  
ctaaagcaag attgtgcatt cgaggcatta gacttcagcg ataatcagat tgaagggcag 240  
ttacctagat ctctagttgc ttgcaaagat ttagaggttt ttgatatcgg gaagaatctt 300

attaatgatg catttccatg ttggatgagt atgcttcccta aacttcaagt ccttgttcta 360  
aagtccaaca tgttccactgg ggatgtgggg ccactctattt cagaagatca aaatagttgt 420  
gaacttggaa aacttcgaat tatttgattg gcttttaaaca atttctctgg attattgcga 480  
aac 483

<210> 44751  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-D2

<400> 44751

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gcgccctaggc atcgacatgg aggacttcta cgtcacgac ccctacggcc tgctgctcgt 180  
agccggcgcc gtagccggct acatgaagcg cggcagcgcc gcgtctctgg tcgccggggg 240  
cggattcggg gctgcgctcc ttctcgctgg tgcgctcagc gcctgggcct tcgcgcacgc 300  
cggaggtggc gctgccgaca tctttgccac cgtccttcag atcgtttgtg ctgtgctatt 360  
gactgttggt atgggaataa gatatgtcaa aacacaaaag ataatgcctg ctggaattgt 420  
cgcttctatc agtgcacttc gtactgatat t 451

<210> 44752  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-D5

<400> 44752

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cgagcagtgg tggccgcggg ttccccggc tcgtcctccc ggatccggcg acgaagatta 120  
attgaataac ttcgataaga tgggtcgtgg tattagcagt gggggtggtc agagttcctt 180  
gggctatctc tttggcagtg acgaagcttc aaaatcattt gagaagcctg caccagttca 240  
aaagccaact tctccatcct ctgcagagag actaaaagat atcgctgctg gtattcaaag 300

tagtaaatca tacaattaca aaagatctga aggccagaac tgtggaaatt tccttacgga 360  
 ccgtccgtcg accaaagtgc aagcaggctc aggggggaac tttcactcgg gtatcttttt 420  
 a 421

<210> 44753  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-E4

<400> 44753

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 atggctgttc acatgactac gaccacagat gattaaaggc tttagagcac cctgtattga 180  
 atttgagtga tcaccattcc tgatattgta gaggtcaaca tttttaagga tgattttatt 240  
 attcagtttg tgaatcctaa agtgtccagt ttttaattgt gctaatacat gtg 293

<210> 44754  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-G5

<400> 44754

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 gttgccatta agtcggggga agtcttattc agcgaccagc acccgccagg ccatatctct 120  
 gcaatgggtg actacacaat ccagattagc accaagctca ttgaccagct tgctcgtgat 180  
 gacgagaagg taaaactgaa agccatgaag cccaagccta agaagaagcc caccgtccag 240  
 ccacatgaag agcccctgga attcccga gaacataga ctacaagcct tgctactgct 300  
 cctgggtggc ctctgcagtc ttcccctatg tttctgcat tga 343

<210> 44755  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-C9

<400> 44755

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caaagagcag ccctgcatgg gatgaagact ggggtcctac taagaaaacc ggtgttccat 180  
ctctctcagt tgattctagt gcacaaacaa agcaaccctc agtacaccct ttgacttca 240  
gtactcaaac aaagcaatcc acaccactcc cctttgattt gagcacccaa gtaaagcagc 300  
catcattagt ttctcatgct acagcagcta cgatcccacc tgcgcaacca caaccagtac 360  
aatctcttgt gcccagttca ggaccttaat cttctggctc atgtgccctt ggtga 415

<210> 44756

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D12

<400> 44756

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<210> 44757

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D2

<400> 44757

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ggaaaaagaa aaaattaaaa aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggca tcctatttaa 180  
agaatcaaat ttaaattaat aattaatata acataaaata ttataatat tgaacccaaa 240  
tttaaattaa ttgcccatat attaaaaaat aattaactag aaaaaccctg attataccaa 300  
attta 305

<210> 44758  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D5

<400> 44758

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 cttgctgaac tcgggctaac tgaactacca gccatgttac aggactcaca tcctgctgtt 180  
 ggctctactc ttattggtgg tgaaacagaa cctctttaca ggtatgaaca attttgctgc 240  
 acaattctat atgcacccaa acaaagtata caaaaacaat acccaacata gcatatatga 300  
 tgctaattct tcttgcaaaa attgtccata gcttgctaca agacatctat ctacacgtga 360  
 catgtatgag gagtttaaga agcatgctac ta 392

<210> 44759  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D8

<400> 44759

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 gccgcggctc ggatagaagc ggagcgaaaa tcctctgcag aaaggtaagg attcgcaggc 180  
 gtgatcagga gctgaaagaa cctgttcgag gtggcctaca ctcgtaggga tcgcgttgac 240  
 attgggagaa atcactgaaa ggcgtaaacc gagcaatatc caatatggga agggaagagc 300  
 aacaataccc gtggcaccaa aaatttggtg catagatcca agagaagaac aatacatatc 360  
 t 361

<210> 44760  
 <211> 99  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D9

<400> 44760

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<210> 44761

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E10

<400> 44761

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aagtcccggt gaccgaggtg ccagcggagg tcccggcgga ccatgtggcc gatgcgcccc 180

aggctaagaa cgcgccaag gagaagaatg cgcctaagga gaagaagctc ttcgcgggcg 240

agaagccggc ggcgcaccct ccctacgctg agatgattgt agaggcgatc gctgccctta 300

aagagaggaa ggggtcgagc tcggtggcca tcaacaagta 340

<210> 44762

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E11

<400> 44762

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tccttttctc ccgtgaagca ttgacgggccc tgagcagggc tacctttgct gcttccgggc 120

agaaagcatc gatccattac tgcaagttct caataccgaa ttccgttatg cttaccgaat 180

cgtcttatga agggctgctc aatcaccgag ctcccatgct cattctcgta ttactacaat 240

ggcaatacca tcgagctctt aaatttacat gaacatattc ttgctcataa cgcaactgat 300

gatgactagc aaacgcagat tataccactg aacataaaca ttgcagtgcc caaattcaaa 360

acaatgacta ttctaa 376



<210> 44763  
<211> 61  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E12

<400> 44763

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t 61

<210> 44764  
<211> 457  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-044-Q1-K1-E5

<400> 44764

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tttacttgtc tcagcccggg gtctgctgcy tctgggtggtg gtgaagggga gaaattcgtg 180  
agatctgttc cggatcaggc gtgcyagctc gggaatcagg ggtttcacac atagcttcgt 240  
cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 300  
tctatgatgt atgaagctcc ctttggtac agcattgagg acgttcgacc tgccggaggc 360  
gtgaagaagt tccagtctgc tgcttactcc aactgcgcga agaagccatn ctgatatccc 420  
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<210> 44765  
<211> 220  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E6

<400> 44765

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 acccgtaacc tatagacacc tcaacatact aacatgtaaa aatgatacca taacataacc 180  
 tgatttaaatt ctataactcc tacatactac aatatcacac 220

<210> 44766  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E8

<400> 44766

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 gcccgcgcgc gtcgccgcca tggggagggg aaagttcaag gggaagccca caggccgccg 180  
 caacttctcc acacccgagg agatcgctgc tgggtacttca ggtcggccac gcacctttaa 240  
 gaagaaggag gaagaggaag atgaggaaga ggtagaaaga gaagagtctg aggaagaatc 300  
 tgaagaggat tctgatgaat agactaaaca taaaagcact g 341

<210> 44767  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E9

<400> 44767

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 tcttaagtcg cggtgttcaa taaagggggg gccatgggtca ttcttgtatt actccaaggg 240  
 caagaccatc gagctctcaa atttacgtga agatattgag gtgcatcttg caactgatgt 300  
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 aagtacgtct cacggggcct acatttcgta acccctgtgc catgtcaatc cattcttgct 300  
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 <223> Clone ID: LIB3076-044-Q1-K1-G10  
  
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 cccagccgc tgctccactc ggccgccagg gagcatcagc cttgtttctt tctctgattc 180  
 tttgtctgag cagccgctag agcacagagc tactggccga acgtgcccga gtacggccgt 240  
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 aacaggctgg caccgttcgt aaaaacagct tcatcgatc caagaaccgt ccctgcaagg 180  
 ttgttttagt ttctacctcc aagactggta agcatggcca cgccaaatgc cactttgtca 240  
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acttaagtta atatctgtct gttctctggg tatctaactt attttgatag ttcacttcat 360  
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<400> 44773

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tctacgagga gaccgcctat gtgctcaaga tcttctcga gaacgtcata ctcgacacct 240  
tcacctacac cgagcacgct cgccgcaaga ccgacaccgc catggatgct gactacacgc 300  
tcaagctcca gtgccgtacc ctctacggct tttgatgcta ggcgcctctt cttaactggg 360  
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<210> 44774  
<211> 373  
<212> DNA  
<213> Zea mays  
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<400> 44774

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acaatctgct cgttctctca atgggtgctcg cctttgtcct gctagtatat cacttagcac 240  
ccatgccgcc actacgtcaa gcacaccaca acctatgtct tccttaccct cttcatagaa 300  
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373

<210> 44775  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A10

<400> 44775

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accttgacc agagtatgca gtcactggac gagtgaccac aaaagctgat gtcttcagct 240  
ttggtgtcat cttgatggaa ctgattacag gacgcaaggc acttgatgag actcagcccg 300  
aggatagcat gcatttagtt acatggttcc ggaggatgca gctcaacaag gaaacattcc 360  
gcaaagcaat cgaccctgtc attgacctcg acgaggaaac ctacgctagt g 411

<210> 44776  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A11

<400> 44776

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tggattggtc cagcatgcac cagcatgatg ggaagtgtgt cttcgtatag acaagacatg 180  
ttggcactat tggatacctt gaaccatatt atacactcac tgtaccagtt accacaaaag 240  
ctgatgtcat cagattatgt gacatcctga ttgaactcat tacag 285

<210> 44777  
<211> 262  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A12

<400> 44777

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ctgcactagt agcttgcgct atgtatcctc tactagacaa gacacgtgat cacgctcggg 180  
ctccttgaac cagaccatat cataatccga gcagacacca cgaacatgca tgtgatcgga 240  
tacataatca tcttgatcga ac 262

<210> 44778

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A2

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tctttctata attgggatct ttggttagatg tcaaccctga gattgctctc tgcataaggct 180  
tacaattcgc tggatccaaa tggcaatatc actataaaat ggtatatcat tcaatggact 240  
cctgatagat atatcataag tacaattacc cacattaaca actgtatctc tttcatcttc 300  
agcttgatac accctggttt attctattaa atatcccatc ttcacctgta caatataagt 360  
taatgtaaca tggccaattg ctgattttca aacatacatt accgataaca ataacaccat 420  
ccaaaattta 430

<210> 44779

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A4

<400> 44779

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tcatcccaaa attctacgca cttgacactt taacataagc ccattccatc caacaatacc 120  
aattacaatc aataatctat caatctctat attaaccat catcctcctt acatccataa 180

tacccacacc ctttctaata cattgctaatt attactaaac tgcaactatc actctacaac 240  
aaccgatatt atcattgtat aaaaaacctt ttaattctac atataa 286

<210> 44780  
<211> 156  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A5

<400> 44780

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tccaaattgc actatcacta taaaatgcga tatcat 156

<210> 44781  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A6

<400> 44781

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gaccgcttca gataagccaa aaagctaagg cttgagctgt tggatgctgc cctgggtgttg 120  
ttggctggat gagttgtggt gacctaggaa gcagcagaat gccagtgag ctgccccaaac 180  
caggtagaac agtgagcact tggaatgccc atgttacact cgttatataa tttgggtggtc 240  
ggtgcagtat tacttgtcat gtctgcat 268

<210> 44782  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A8

<400> 44782

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tttcaaaaat taaaaaaaag caaaagccaa aaaaaaaaaa caaaaaaaa caaaaaacaa 120



aaaaaacaaa aaaaaaaaaa aaaatagaac aacaaaccta caaaacagaa caaacaacat 180  
ctacacacca attaaaaaaa ttagcacata caaaaccaac ataacaacat atacataatc 240  
caaattaaat aaac 254

<210> 44783  
<211> 89  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A9

<400> 44783

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gcataatttat catttttcgaa cgtcctcaa 89

<210> 44784  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B11

<400> 44784

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accttgcggtg cgtttatgca gcttcggatc tatccgcggg caatcattgt acgatccttt 180  
cgaaacacgg gatctgtggg ggaagggttat ccggaccaac tatcccgaat cggcagggag 240  
cagtccacac tctaacctga tagcttcaag gagctgaggt gatatgacct ccttttcgcc 300  
ctcgtctgtg ctactttccc ttgagctttt ctgggccact tctgcgcccc agcctctgta 360  
caagatcact ttgttggttt ctcgtgacac tagcaccgat 400

<210> 44785  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B12

<400> 44785

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cggtgctcgt gcttgcgcta tggatcctct actttctgtt ccccttgatc tcgctccggc 180  
tcctccaccc gatccagatc ataatccggc cggacgccgt gcgcatgcag ctgctcgggt 240  
tcataatctg cctgttcgtg tccggtgccg ggttctactt caagagccac aggtggaggg 300  
ctgcccacat catcgatcgc gccctgggtc aaagcaccgc caatggcata ctgtacgcgt 360  
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<210> 44786

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B4

<400> 44786

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caccgtgacc ggaagctccg ccgtggaatg ggccggcccc ggcggcgcca cgcagccgct 180  
gacttggcac aaggccctgt tcaacgcgcc ggctgggagc gatccggtgg ccctggacat 240  
gggcagcatg ggcaagggcc aggtgtgggt gaacggggcg cagcctggc gctactggtc 300  
gtacagggct cactcccgcg gctgctgtct gtgcatctac gcctggacgt accgcgagga 360  
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<210> 44787

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B6

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tggacctcac aagtctaggg agtgcctgcc actgatcctc atcatcagga acagggtcaa 240  
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 aatcagggat gaggatgcta aattcaagct tt 452

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 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B7

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<210> 44789  
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<223> Clone ID: LIB3076-044-Q1-K1-B8

<400> 44789

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<210> 44790  
<211> 127  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B9

<400> 44790

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<210> 44791  
<211> 356  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-C10

<400> 44791

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ctctatcaga tgattctagt gcacaaactg cgcattcctc aataaccctt ttagactgca 240  
agactcatac aaagcaattt acaccacttg actttgattt gagcacccaa gtcaagcaga 300  
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<210> 44792  
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<223> Clone ID: LIB3076-044-Q1-K1-C11

<400> 44792

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acacatacca gctacaaaga tcacccctgc ctggaacgaa tactcgtgtc ctactaatac 180

aaccagtgtc ccattcttat aagatcctac cagaccacaa acaacacacc acttaataca 240

ccctctatac tgcaatactc atacaaatca ctccacacca cttcacttcg atttgaccac 300

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<210> 44793

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-C12

<400> 44793

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atggcggact acggcggcgg cctcaccgta cccgtcgtcg tgacctgcct catggcggcc 180

tccggcggcc tcattcttcg ctacgacatt ggcattctcag gaggtgtgtc ggagatggag 240

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<212> DNA

<213> Zea mays

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<400> 44794

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tattgcgtga attcattatc catcttcttt ctataattgg gatctttgtt tgatgtcaac 180

cctgtgattg ctctctgcag aggcttacga ttcgctggat ccaaattggca atatcactat 240  
 aaaatgggat atcatgcaat ggactcctga tggatatgtc gtaagtagaa ttgcccactc 300  
 taacagctgt atctctttca tctccagctt ggtaggccct ggtttattct attaaatagc 360  
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<210> 44795

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E10

<400> 44795

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 ctcatctccc aatcttaaac tctcctacca aacgcttaaa ccctctttta acttaatcca 180  
 cacaaacgac aaccatacaa tatcaaccaa ttatatacact tcacctccat cacattcact 240  
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<210> 44796

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E11

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 caaacaggac agtcagaggg gtatggattt gttgagttct tttctcatgc atcagcagag 360  
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 caaacaggac agtcagaggg gtatggattt gttgagttct gttctcatgc atcagcagag 360  
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<223> Clone ID: LIB3076-043-Q1-K1-E4

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 aagccttaat gtttacgacc gggcacacga tgcgctccga gagatccgca agtaccagaa 240  
 gagcacgcag atgctcatgc gtaagctcgg cttgaagaag actggccgtg tgatcgcgca 300  
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<223> Clone ID: LIB3076-043-Q1-K1-E6

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<223> Clone ID: LIB3076-043-Q1-K1-E7

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gagaacatgc ccaagttttt ggccgatgag ttcaagaagg tgaacggcgg acgagagatc 180  
gaaggagctg tcaagagggg ttacctcaag actgacgagg agttcctcaa gagggacgag 240  
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<223> Clone ID: LIB3076-043-Q1-K1-E8

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gagaacatgc ccaagttttt ggccgaggag ttcaagaagg tgaacggcgg acgagagatc 180  
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277

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<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E9

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gagcctaaaa actggtggaa aggcttcagc cctttctaaa ggtgaggcaa gcaaaggaaa 180

agcatacatt actgacaaag gtgcaaaggg ttcttcatca catgcagtgc ctaccaagtc 240

tgatgcagaa ctaaattctag agcttgatat ccctccaaat tctagaatgc taatgaattg 300

tgaagcagct gaactattgc aagaaattca cgagcacatg gccatactat cagaggaccc 360

caagatcaaa attcctgagt catttgacaa aacttttcag tattcaaaag atggaaatca 420

tttcaccact gcaagctc 438

<210> 44806

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-F2

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ctcatcgtcg tcatctgcgc cgcccgaaga gttgacttgg ttgagccttt caatgagact 180

ggccttactt tgctcgtat 199

<210> 44807

<211> 403

<212> DNA

<213> Zea mays

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attaatatca acaaagcaga ctgtcaggac ctcacaccat agtgatgcaa gttactggag 120

tcagaagtta aatctgtttt atcaacctgg gccgtgaagt gcctttgaac agcatcaact 180

aactgctccc tggatggatt agggcatgca tctgtttcac aaatgcagtc agtcagaaca 240

atgaaacata attggctact tgcaattgat agtacgacct tgtctagaaa tttgagctct 300

acttacgaga ttgaagtggc gccaatatct caacagtgca gtcagttcta acttgctcat 360

gtcaactttc tgcactgtta ccagtcaaaa gaatgtaaag ata 403

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aacctacaag acacaaaatc taaacacata ttatcaacca atacccaaaa ccaccttaaca 180

acaacatcaa caaacacctc cctataaaaa tcaaggcaca catccactac acaaatataa 240

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<210> 44809

<211> 168

<212> DNA

<213> Zea mays

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 tgccgnctcg gaagcactag ctgctcaggc cacacaggag aacttcgaca agggatcaat 360  
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 tccaccccca aacccccccc cccccctacc cccccaaacc ccccccccc ccccccccc 180  
 cccaccccc cctccctccc tcccccccc ccccccccc accccacccc ccccccccc 240  
 cccaccccc cccaccccc ccccccccc cccccctacc ccccatcccc caccacccac 300  
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<210> 44812  
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<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-H12

<400> 44812

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tccaagctac tctctcccct cttcgcctac ctaaacacct taacgttctc accttcgttg  180
tccatttctt tgcaccactt ctctcttctg ctcccttggc tattcgcatc tcctatgtaa  240
tttttccaac tatattacct atttacaaca atcctaccct actaccacac tctctttaaa  300
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<210> 44813

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-H9

<400> 44813

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tcatcacagc cacagcagct agaccctagt agctcactcg cgctcgtgcc atgatgaata  180
cccgagcctg tggcagcggc agtggcggca ggaacgacca gaccatgatg ggcttctccg  240
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agcgtccgcc agcaggccgc gggcgccggc gcgcgcagga gcccgggcgg ttccctcggcg  360
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<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D8

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cagaacatgc cctagtctat agcctatgag cccaataaag tgtacggcca acgacagatc 180

taccgacctg tcaagaataa ttacactcat acctacaaca aattcataaa caaccacgag 240

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<211> 177

<212> DNA

<213> Zea mays

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caactatctc ccatatacta tgatccaaag aaaaattcac acttaccatc ctgtcac 177

<210> 44816

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B3

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accttatcca ttagtatatg tttaatctcc aataaccaca aacctataca aactatcaaa 120

tttcattaca ttcacaactc tctcccatat actatcatcc aaataaacia tctcactttt 180

catcctgtca ctccaaa 197

<210> 44817

<211> 296

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<223> Clone ID: LIB3076-043-Q1-K1-B4

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ttcgatcgac acagatacac tgcgcagatt atagcttacc tgataccact gcgccacatc 180  
tatgcatgca aggatcccaa ttccgctcat cgccagcact tctcccatgt ggagatcgct 240  
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<210> 44818

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B5

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acacacaact caatctatac ctcatacctc tatccacaca catacactca tcaaaatata 180  
ccttacctaa taccactcct ccacatctat acatcctacc atcccaatac cactcatcac 240  
caa 243

<210> 44819

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B7

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ctttctatca tctcatgaac aatgcaaacc ctacttaact aacagcaacc ctcttaaagt 180  
actatactta actttcttcc caagaccatc atcatcaact tatacttatt agtactatat 240  
gaaacacaac aatctcttac ccaaactatc cttacatcat caacttctac atatctcact 300

gcatttcatc acttatatcc aattccataa caaacacact ttcgctctgc acataatcca 360  
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<223> Clone ID: LIB3076-043-Q1-K1-C1

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actatgcagg ccgatacgtg cttatccg 148

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<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C11

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<210> 44822  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C12

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 tccaaggcca cgtcggaaag gagatcaagg gaataacaag attcctgatac tcaacctgca 240  
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 gatggaaggt atgcacagga cagataaagt ggacgaacat ccttctggga tgaggcacac 360  
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<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C2

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<210> 44824

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C3

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catgcatgct aggatcccaa ttccgctcct cgacagcagg tctcccatgt ggtggttgct 240  
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 <212> DNA  
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<223> Clone ID: LIB3076-043-Q1-K1-C5

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<210> 44827  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C6

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tcttattgtg cacatgaacg atgcgcaccc tactaaacga acagcaagtg tgttaaaata 180  
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catggcatct cttatatgga atggctagca aaacactcgt tctcttgac atgatcagaa 360  
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<210> 44828

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C7

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<210> 44829

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C8

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<210> 44830

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D10

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atattaagca cctcacaatt gccactatca ccattaacac catacatccc aaatatacca 180

taaaaaatat tcaaccctac atgaccagta cacaccattg ataacagcac acacacacat 240

cacatcaata ctctaaacat tacaaccaa cacaccgtac aagtccacag actctccagc 300

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<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D12

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ttctagtaag cgcctcgcaa tggccacgat caccatgaac accaggcatc ccaaagagac 180

cgtaaaaaag atgcaaccct acatgaccag tacacaccat ggagaacagc acacacacac 240

aacacatcaa gactctaaac atgacaacca aacacaccgc acaagtccac agacgctcca 300

gcaccagcag catctggcag ttgagttaga actgtgatag tccagagctg tcaatggatc 360

accaacgcct gcaacagtaa aacgaaagag gacctggaca ctatggcaac ctaaaaagaa 420

ctta 424

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D2

<400> 44832

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ccagccaggc agagatcaaa aaggcctatt attggctcgc aaagaagctc catccagaca 180  
caaatctggg tgatgcgtat gcacaacgca cgtttcaaga ggttcaacga gcttatgaga 240  
ctctcacgga tgaacaaacg tgatcattat atgatcaggt tggccctgat cagtatgaga 300  
aaactgctac tggcggaggc tgaactggct catagggtag ttatggaaat tcattttagg 360  
ataattttgg tggcagcatt tgctggagcc gtattggaat gaatgattc 409

<210> 44833  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D3

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gctgatccac atctacaaat gcacaacact actatgacgt gcttaggcat caaagcagtc 120  
caatacacgc agagatcttt tcagcctat 149

<210> 44834  
<211> 100  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D4

<400> 44834  
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gccgattcac atctccaaac ccacgacact gctatcaagt 100

<210> 44835  
<211> 127  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D5

<400> 44835  
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gtcaattcaa ttgtccacac ccaccacact gctctcaagt gctgaggatg taacgcttcc 120  
caagacc 127

<210> 44836  
<211> 127  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D6

<400> 44836

ctcactcatc caccacatc aattacactt tacacactac caccatacaa tcggtactag 60  
tccaattcaa atctccacac ccaccacacc actctcaatt gcactcgaca taactcaacc 120  
caatacc 127

<210> 44837  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B11

<400> 44837

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gtgggagcgg cggcgaaggg cgagctgtag gccgaggagg aaaccctcgc gcgcgcaagc 120  
ggatgtcgac ggcgacggcg acgcggtaca ccgcggcgcc taaggcgggc gccctccgcc 180  
aaagggacac acaactgcc a ccggcagcgg cgggtttttc tgctgctacc tgctccggtc 240  
cctctgcccg cgcagcaaga gccgcaccta catcggcttc acggtgaacc cgcgccgccg 300  
tatccggcaa cacaacggcg agatcgtcag cagcgcgtgg cggaccggc gcggccggcc 360  
ctgggagatg gtgctctgca tctacggctt ccccttcaac gtcgtcggcc ttcagttcga 420  
gtgggcgtgg cagcacccga 440

<210> 44838  
<211> 298  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D7

<400> 44838

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gttaatctaa ttgatcacac cgatcacacc tgactcaata gcgctgcatg ttactctact 120  
cagaacatgc actagtttta tgaaccatgc gtcgtatact gcgtatggtc aacgtcagca 180  
tactcctact tatatgaatc agttacctcc atactgtcca caaatccatt aagactcaac 240  
aatgacacat ctcttgctac ttaacattta ttctacaaaa cttgtctata aatctcat 298

<210> 44839

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-G1

<400> 44839

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cgccctcgac tcgcttctcg cctcagcga cgacctcgtc aagtccaatg ttttcgtgga 120  
gggcgtgtca cacaagatcc ggaggcagat cgaggacctc gagcgcgccg gaggggtcga 180  
gagtgggacc ctacccgtcg atggcggttc tgtcgacacc tacctcacca ggtttgtgtg 240  
ggatgagggc aaatacccca caatgtctcc gctcaaggag attggttgga gcatccagtc 300  
acaggttgcc aagattgagg atgatatgaa ggtgcgagca gcggaatata ataatgtaag 360  
gagccagctt agtgcaatca acagaaagca aagtgggagc ttagcgggtc gtgatctttc 420  
caatctggta aaaccggagg atatgatcac ctccgaaca 459

<210> 44840

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-G4

<400> 44840

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cggcttcaag atgcagatct ttgtgaaaac cctgaccggc aagactatca ccctcgaggt 120  
ggagtcgtct gacaccattg acaacgttaa ggccaagatc caggacaagg agggcatccc 180

cccagaccag cagcgggtca tcttcgctgg caaacagctt gaggacgggc gcacgcttgc 240  
 tgactacaac atccagaagg agagcaccct ccaccttgtg ctccgcctca ggggagggcat 300  
 gcagatcttt gtgaaaaccc tgaccggcaa gactataacc ctcgaggtgg agtcctctga 360  
 caccattgac aacgtc 376

<210> 44841  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-G5

<400> 44841

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 atgttctaaa tcttcgagct gataggtgct ggaggggaaga aggtgctgaa gttatgctag 120  
 aactatcaga taccaataag tgggtgatag ttgtgaagat acaaggtatt actaggtatt 180  
 cacttaaacc ttcagatgtt aggtcatatg tcattaatcg tcattctcaa gcctacatgt 240  
 gggcagttga tgatgcatgg aaacttgagt tcaactgataa gtgggactgg ctggtattca 300  
 aagagctgca atgtgtgggc cgtgagcgta attccaaggg aagacaatcc caattcct 358

<210> 44842  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-G9

<400> 44842

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 ggccgtggtc aaatgacagc ttcccagagt acgcggagga cattgaagct ggcggagatg 120  
 cggccccctt attttcaatg atgtcggagg ttgctcgcag cttacaagtc actcttggtg 180  
 gtgggtccat agctgaacgt tcgggaaaca acttatacaa tacatgctgc atctttgggtt 240  
 cagatggcaa acttaaggtt aaacatataa agatccatct ttttgacatt gacattccag 300  
 gaaagatcac tttcaaggaa tcgaagactc ttactgctgg gcattatcct actgtttag 360  
 acacagatgt tgggcgaatt ggtattggga tatgttatga ca 402



<210> 44843  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-H11

<400> 44843

gcgaacgcat tcttgccatc tcccaagacc tcttcagact ttagaatcgc atctgcgtcc 60  
atgggcgccg ggggcactgg aactggaggg aaggcgaata agggagcggc cggtcgcaag 120  
gcctgcgggc cgatgaagaa gtcggtgacg aggtccgtga aggccgggct ccagttcccc 180  
gtcggccgca tcgggcgcta cctcaagaag ggccgctacg cgcagcgctt tcttcagcgg 240  
tgcccctcgc tacctcgcgg cctgcctgga gtacctcgcc actgatgtcc tggagctcgc 300  
cggcaacgct gccaaaggaca acaagaagac ggcgcatcgtc ccgcgcc 347

<210> 44844  
<211> 174  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-H7

<400> 44844

caaaaagaaa aaaaaaaaaa agaataaaaa attttaaaaa aaaaaattta aaaaaaaaaa 60  
aaaaagaaat tttttaaaaa aaaaattaaa aatttaaaaa accaaaaaaa aagaaatgaa 120  
aaataaaaaa aataaataaa aaaataaaaa aaaaaaaaaa aaggcgcccc cctt 174

<210> 44845  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-H8

<400> 44845

gtcctattgt tatgcctcca aaatcattat tgatcagacc ttttgtggac agaagattct 60  
gtatcacatc tggttctttt gagatttcaa atcaaagtca attcaattgc tattgtctgt 120  
atgaggtcga tggacagagg cccagagcac acaataaata gaggttttta tgtagctgaa 180

ggcgcaaaaa tgtgtagtgt ggagcaggtc aaggttgacac aagctcttta tgtatctggt 240  
 agcctgttca atcactcatg tcagcccaat gtgcacgcat attttctttc ac 292

<210> 44846  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-H9

<400> 44846

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 actatggagt ggacatgggt agggggaaga aggtgcctgt tgctaagaag gatgagactg 120  
 agggacaaga ggggtgaggct atagctgagg aaacaaagaa gagtaaccat gtgcagagga 180  
 agattgagaa gcgccagcag gaccgtgcac tcgacactca tattgaagag caatttggca 240  
 gtgggagatt gatggcctgc atttctgccc gtcctgagca gtgtggccga gctgggtgggt 300  
 aaggactact ggaccatttc acctagcttc agtagcttac agtttccacc tgaaatttcc 360  
 tagcatttgc tgggcattat tttttatt 388

<210> 44847  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-A1

<400> 44847

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 ctactactcg attgcaatca attaccgaaa aaatgaactt gaggagaaaa tgttgctgaa 120  
 cttgcacaaa aagaaatgga cagatgggct aattttgaag aggtttgaca ctcatcaca 180  
 aaccaacgag cagactgtcc aggaaatgct aaacctagcc atcaagtaca acaaggcgggt 240  
 gcaggaggag gacgaactgc cacctgagaa acttgcgata gcaaatgtag gtcggcaaga 300  
 tgcaaaaaag catttgaag agcatgtgtc caatttgatg tcatcaaaca tagttcagac 360  
 cctaggaacc atgctcgaca cggttgtatt ttaagctcta ct 402

<210> 44848

<211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-043-Q1-K1-A10  
  
 <400> 44848  
  
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 atcctacata aaaccttcac tactatcata ctactaaac ctacataact tcatacaaat 180  
 atttaaacia ctaccttctc aataacattc ctcccctcaa ctccaataag ccatcaaac 240  
 catacaacat aaatcattaa attaattacg acttacactt acaaaatctt acaact 296

<210> 44849  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-043-Q1-K1-A11  
  
 <400> 44849  
  
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 gggccgccag aggcaatttc accctcggtt ctttctccaa ttccggcggg cgctaccaaa 120  
 attccctccg ccaagctcgg atctgaacgc tgcgctccgt gtcgctcgtc gaatccgcca 180  
 tgaacggggc caaatccaag ggcgccgaca aggccgatgc caagctggcg gtgaagagca 240  
 agggggcgga gaagcccgcc aagggcagga aggggaaggc cggcaaggac cccaacaagc 300  
 ctaagacggc tcccagcgtt ttcttcgtgt tcatggagga atctcgcaag gagttcaagg 360  
 agaagaacct taataacaag tctgtccctg cgggtgggaaa agcttctggc tacaggtgga 420  
 aatccctgag cgagtcctac aaagctccct a 451

<210> 44850  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-043-Q1-K1-A2  
  
 <400> 44850

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gaactaggcg attgcaatca actacagacc gaatcaacct gtcgagaatc tgtcgctgta 120  
cttgtacatc caatatagga caatcgcgct aaatatgaag agatttcaca ctgacacatc 180  
tacgaatgat cacactgtac tgcaaatgct taagctcacc atgatgtaca tcaaagct 238

<210> 44851  
<211> 242  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-A3

<400> 44851

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caacacacac acaacactcg cataaatcta aaacccatca accccaacc acaacaaact 120  
aatgaaactc aatcacttca ctataacaac acatatacaa caaacagact aaatattaac 180  
acataccaca ctcacacatc caccaattat cacactatac taaaaatcct aaaccacacc 240  
aa 242

<210> 44852  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-A4

<400> 44852

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gctatctgca tttatggttt gtttggtttc tagagactaa tttttaatac ttctatttta 120  
ttccattata acgcttaaat tactaaatac tgaatctaaa tataactttta gtctacatat 180  
ataccagctt aggtactaat atcgattata atggatagac ttaaaattag tccctagata 240  
ccaaacaccc ccttactcag acacctgtta tctcatggac agatagcata cctgctcgac 300  
tactactacat agacaggagc cgctccttgg ctcatggatg ctgccatcca aggcgcttat 360  
tatgcagaca agcctgtctg ttgcttgaat attgcatatg aagctgttta atggac 416

<210> 44853

<211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-043-Q1-K1-A6  
  
 <400> 44853  
  
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 gtcgaccgac acagatgtac tcagcagatg atagctcacc tgataccact gcgccacatc 180  
 tatacgtgcc acgatcccaa ttccgctcat cgacaacacg tctctcatgt ggaggtagac 240  
 gcctacgaag ggcgacgtac aagacgtact agctgaggac gactacgact acaaggagga 300  
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<210> 44854  
 <211> 218  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-043-Q1-K1-A7  
  
 <400> 44854  
  
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 atccacacac ataaactcat caaattataa atcaccttat accactactc cacatctata 180  
 cttactacca tactaatacc aatcatcatc aacacact 218

<210> 44855  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-043-Q1-K1-A9  
  
 <400> 44855  
  
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 cgctgcgctc cgtgtcgtcg ctccaatccg ccatgaaggg ggccaaatcc aaggcgccgc 180

ccaagggcca tgccaagctg gcggtgaaga gcaagggggc ggagaagccc gccaaagggca 240  
 ggaaggggaa ggccggcaag gaccccaaca agcctaagag ggctcccagc gctttcttcg 300  
 tgttcatgga ggaatttcgc aaggagtcca aggagaagaa ccctaagaac aagtctgtcg 360  
 ctgcggtggg aaaagctgct ggcgacaggt ggaaatccct gagcgagtcg gacaaggctc 420  
 cctatgtagc caaggctaac aagctcaagc tagag 455

<210> 44856  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B1

<400> 44856

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 caagtctgat ccgatatact atgatccaaa gaaagtttca gaccgtgcat cctgtcatca 180  
 tccaagatcg ctgacctgta tattcagaag aagatgaaca ccaagctgaa ctggaagctg 240  
 atgagcactg ttatcgaaat gaatacaata atagtgaat gcgtcatt 288

<210> 44857  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-F9

<400> 44857

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 atcacgcgct gactatgatg gctcggggcg cccttgtctt cggcgcggtg ctccctcgcg 120  
 cctccgccgc cgcggtctac gggttccacc tgggagggga cgagagcggt ctcgtagagg 180  
 gtgtgctcgc cgcgctccgc gagcgagccg aggccgagga cgccgctcgc ttcgccgtct 240  
 ccactacag caagaacat ggctccgctt tggagtttac tagggtgctc aaatccaagc 300  
 ggcagggtgg gaccgggacc ctgcatgacc tgatactgga ggcagctgat gctggaaaaa 360  
 aga 363

<210> 44858  
<211> 296  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-042-Q1-K1-C6

<400> 44858

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caggagcacc tgccgaatcc tcaacgccgc gttgacgagg acgacgacga ggccctctct 180  
cactccgagc cggaggaggc cgaggacgag gacgaagagg agggggcctc cagctcggcc 240  
gtcacgaggt tcgagcaagg ctgcanggcg ttccgcgtcg cttttctcaa gatcat 296

<210> 44859  
<211> 281  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-042-Q1-K1-C8

<400> 44859

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cgccccgctc gtcggcgctc ggagcaagg gcgtcgagat cgccgcctac ccgcgctgaa 180  
gccgctggag ggaggcctcg ttgcaaatct ctgttatgcy tagtcgatca tgtaataatg 240  
gcttatcgca tatatacttc gttgatagtt tgctgtcaca t 281

<210> 44860  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-D2

<400> 44860

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ggaaggcgcg ccagatcttt gacagccgcg gcaaccctac agtcgaggtc gacgtgtttt 120  
gctcagatgg aacctttgca agggcagctg ttcccagtg agcatcaact ggtgtatatg 180  
aagctctgga gttgagggat ggtggctctg actatttggg gaaggggtgc tccaaggctg 240  
tgaacaatgt gaattctgtt attggacctg ctctgattgg caaggaccct acagcacaga 300  
ctgagattga taacttcatg gttcaacaac ttgatgggac caaatatgag tggggatggt 360  
gcaagcaaaa acttgggtgct aatgcaattc tggctgtgtc attagct 407

<210> 44861  
<211> 472  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-D3

<400> 44861

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cgtccacacc agacactccg gcaagcggca gcaacccgac ggcttctctc tcgtcgtccg 180  
cctcgaccgc tccattcgcg caccgctcgc cgtcgtccgt gcttgaaccg agcaaggaag 240  
cgcggaacac gcagtccccg gagctgacgc cggcaccgcc gtcgaccgaa tcagcgcagc 300  
tgccggagga ccagaggtc taccaggacc ttctgcgcgg gctgcagctg cccgacatcg 360  
accgctgga cttccgcgcc gggctggacg ccctggatct ctccgatgcg gacttcggcc 420  
tggacgacga acatgatctt ctgctccggg acttcgggga cgaagagatg ga 472

<210> 44862  
<211> 239  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-042-Q1-K1-D4

<400> 44862

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tgggagagag atggcgtnca gcgcctcgtc tcccctgccg ttgccaacgc tctcgtctgc 120  
cgtgatcctg ctgcgcgtgt gcgcccgcgg cggcgaggcc aggccgccac cgccgttcca 180



cggcgtgcgc ccgttcgcct tcgacaaggg gtccaccag atcttcggca gcgccaacc 239

<210> 44863  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-D6

<400> 44863

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aaacatttga aacaggagga ggaggatgat gatgagttat tttttgtgtt agttccagct 180  
atatatgctt ccctttattc tgaaaagagg ccagtacaca cttcttgtcg tagtggtgca 240  
caaaaaatta gagaaatgct cgatgggtcat gagagctggt gcaaattctga gtttcgaatg 300  
gagccagaga tcttttagagc tgtagcaagc tatttttagaa gagaaggact ggtgcaagac 360  
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gc 422

<210> 44864  
<211> 217  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-E10

<400> 44864

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atctccctct aggtcgagag catcgacacc atcgacaatg tcaaggccaa gatccaggac 180  
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<210> 44865  
<211> 329  
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<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-E2

<400> 44865

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tggatgatat acaatagtat gtgctttccc aagacccttt agttaagaaa catgaaatgc 180

tcctgaatct tcttatccaa gacatctttt ggtaactaac ataatgcagg ttggtggagc 240

atttgcttat tttggacaaa agactcaagt ttaccataaa tgtatatcac cgattattac 300

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<210> 44866

<211> 378

<212> DNA

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<400> 44866

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actgacgtcg ccggtcagcg cgagctgcgc ggcgaccgaa cctgccatcg caagcacgtc 180

gaggacgggt agactcgtcc atccttcctt cctcctgtta gtcgtcgtag ggtagtttgc 240

actttgcaga tagctagcta gtagttagg gatcaggcat gggtgagggc gaagctgagg 300

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<210> 44867

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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cgtcgttgac gtgcgcttna tgagggcctc cgccatccta cggcgctcga ggtgctcgac 180  
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atcgctatgg acggcacgga ggggctcgtc cgcggtcagc gcgtinctcaa cactggcttc 300  
cccatcaccg tgcttgttgg cagggcttac cttggacgc atcataaatg ttattggtga 360  
accgattgat gagaaggggtg acataaagac aaaccacttt cttcctattc atcgtgaagc 420  
ccctggcttt gttgagc 437

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<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-E5

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cgcgaggcg gacgggtggg agcggtcgga cttccccatc atctgcgagt catgcctcgg 180  
cgacaacccc tacgtccgga tgttaagagc tgaatatgac aaagaatgca taatttgtgc 240  
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gatctggcag acatgttgca agctaaag 328

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<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-E9

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gtcacaagc tactatacct tacatagtat cggcgtacct cttagcagct tacgcttaat 180  
ggatgtgaaa acccaatgat tcatacctac aagatccttc gtgcgatctc agatcatagg 240  
ttaactctat aaatcgtgca cgtgcgacaa tcattatccc tgaatcatga gttaccgtca 300

gtgcatcaat cggcacagat cattacggcg caacaacgac aacgactcgg gctagcaaac 360  
ctt 363

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<211> 474  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-F1

<400> 44870

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cgagagcact gcagctaaga aggctcctgc caaggaggaa gaggaggaag acgaagagga 180  
gtctgacaag tccaagtcgg aggtcaatga cgaggatgac gaagagggtta gcgaggagga 240  
tgaagatgat gacgagtgat ggagagctcg ctcgagacaa tggacggtgc ttcattccaac 300  
aatggagcgg ctacacaagg ccccgtagcg atcaaaaaaa aggagcctat atccatgtac 360  
tagaattatt cagtttctact ccacatcgtg atgttttaaat ttacttttg tcgtgctata 420  
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<210> 44871  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-F10

<400> 44871

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aacgatgtga tccaaagatg tccccatttg aattagggca ttccacgtg aataagaaag 180  
aggatagacg cgcaatgttt gtccatgctg gatgcacgt atgaactgaa caaactacga 240  
tgctccatgc tcatcatggt tctggaggaa cggtaaacag atatatgacc tgtgataaat 300  
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<210> 44872

<211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ccgctgatcg ccgcacgtgg ccgcgccgcc gcctccctca cccgagctcg accgcgcttc 180  
 tccagctcgc cgcttcgacg gtcgctgcct cgacacctcc cccgcgtggg catcagccgg 240  
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 <223> Clone ID: LIB3076-042-Q1-K1-F6  
  
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 gagggactgc aggccaatgt ccagaggctt aagacataca aggccaagct ggttatcttc 180  
 ccaaggcgctg cgcgcaaggt gaaggctggt gactctactc cagaggagct tgccaccgct 240  
 acccagggtcc aggggtgacta catgccattt actcgtgggt agaaacgttc agttgaggtt 300  
 gtgaagggtca cagatgagat gaagtcattt gctgcctatg gcaagctccg ccttgagcgg 360  
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<210> 44874  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-042-Q1-K1-F8  
  
 <400> 44874

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 gcctgcagtc attcaatcta tgtacatatt taagcaacca ggtattggtg gtgaggtcgt 180  
 gccgcaccag gataatacat tcctttacac ggaacctcgt acatgcacag ggctgtggct 240  
 tgcacttgaa gatgcaacaa tcaacaatgg ttgcctgtgg gcaattccag gatcacataa 300  
 aaagggtttg gtgagacgta tggtcagaga tgaaaatggg acacattttg atcggtcctt 360  
 cccagtctat gatcagaaag aatttgtacc gctggaagta aaaatctgtg ctttgggtgg 420  
 tatacatgga gatctta 437

<210> 44875  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-C2

<400> 44875

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 gcagcgcctt cttcgcgcgg cgcttcgccg ccgccgccgc cgacggccag cctgcgtgg 180  
 agatccacga ctgcgaggac gcggagatct acgtggagac ggtcggcctc atgtactgcg 240  
 acgacggggc caacaagcac cggctgctca agcagagcgt tccgcgcgtg cttcgcgtca 300  
 tg 302

<210> 44876  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H10

<400> 44876

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 atcaagcctg cacctgcacc ttacaccagc gatgaacttg tgaaagtaac tgaagaacaa 180

attgctgcat cagctgctgc agcttggaac ccgcaacaac ctgcatcgtc gcaacagcaa 240  
gaagtgtaca ctactccgag tgaggacgct cctacatcag gaggaagcga tggctcctgct 300  
gctccagctc ttgctgcgag tgactcggat ccaaagcaag tgaatctgga caaggcggaa 360  
acacagagat gactccgctt aacagcttga cactggatgg gatgagcaca ctgaacacg 419

<210> 44877  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H11

<400> 44877

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ggtttttggt tcagggtggt ggccttgac cctcatttca caaagcttaa catggattca 180  
atcattaatg cttatgagct ttcaaagagc agggctatat tgctcgatta tgatggaact 240  
ctgggtcccc aaacttacct caacacggaa cctagtccac aggttttgag catcatcaat 300  
accctttgct cagatagtag aaacatcggt tttcttgtca gtggctgaga caaagatacc 360  
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<210> 44878  
<211> 219  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H2

<400> 44878

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ctctcgataa ttctgtctacg acttactggt aaaattcacc ggactgtcct gtgtgcaccg 180  
tactgtcctt tgagccaact gtccatctgg ccaacattt 219

<210> 44879  
<211> 397

<212> DNA  
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 <223> unsure at all n locations  
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 gggatggcga ccatggagag cctgatcggg ctggtgaacc gtatccagcg cgcgtgcacc 240  
 gtctctggcg accacggcgg cgccggcggc ggcgagggct ccctctggga ggactcccc 300  
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<210> 44880  
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 <213> Zea mays  
  
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 <223> unsure at all n locations  
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nggaggagga ggcggcgccg ggcggcgcaa tgcggcgagc atccggggcg tcaacgtggg 300  
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 gctgtgcgcg gtggcgcggtg tgagccggcg cctgcgcgcc gtggcgggatc ggggtgctgtg 420  
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<210> 44882  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H7

<400> 44882

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 ctgagactgt ggaacttcag attggtctga agaattatga tccacagaag gacaagcgtt 180  
 tcagtggctc tggttaagttg ccccatatcc ctctgcccga gatgaaggtg tgcattgctt 240  
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 ctctcaagaa aatgaacaag aacaagaagc ttgttaagag gcttgccaag aagtaccatg 360  
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 acaaggcagg caagttcccc accct 445

<210> 44883  
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 <212> DNA  
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<223> Clone ID: LIB3076-041-Q1-K1-H8

<400> 44883

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<223> Clone ID: LIB3076-042-Q1-K1-A11

<400> 44884

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gacatgtggt tccatagaaat aatcaatata ttgattgaga tttatctcga tatatttctg 180  
aactatgttc atcatataaa taattgaaaa catcaaatca a 221

<210> 44885

<211> 198

<212> DNA

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tagtgagtac cgctgctttt tcggcgccct cgactgtgcc acggacgacc actccctcca 180  
caacgccttc agcaccta 198

<210> 44886

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-A2

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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-042-Q1-K1-A3  
  
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 aaccctcaaa agctccgatg gcgaggagtt cgatgtggaa gatgtggtgg cgatggagtc 180  
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 <223> Clone ID: LIB3076-042-Q1-K1-A6  
  
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 gactagtacc gctacctcgt catccacctc gcctggacca cgtacgacca ctccttaaca 180  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-042-Q1-K1-B1  
  
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 aatatataat aataataaaa aaataaaaat ataaataaaa aataaattaa aataataaaa 180  
 aaaaaaaaaa aaaaataaaa taaaataaaa aatatataaa aaaaaaaaaa aaaaataaaa 240

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 <211> 383  
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 <213> Zea mays  
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 tgaacgtgtt aacactgacg aaggcgacta tgattcgtta gcttgcccca tgcacgatga 180  
 aactgttacc tacaatcgta atgtaatgtg ctggtatact cgaatgccat agcccatagt 240  
 cagccatggc ttggaataac gtagtggtg actgatatgc cagtaggcac cttatctagt 300  
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<210> 44891  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
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 ggattgtgaa atagcactgt gggggcggag gctggcatct ttctgcttga gcttggctga 240  
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446

<210> 44892

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 44892

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ggagtcgagg ccgggccgaa cgaacctggt ggagcccata gggcacggcg ccgcgctgcc 240

gtgcggcggc caggcagtgc agccgttggt gacgagctcc ggggctgtgc tcgggtgcagt 300

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<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H1

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gaacttcaac actttttctc tgatcgggaa gacgtctcct gtaacctacc aagtccttgg 180

ccatctgaaa acatgcttgg tcctgacctt tggctatgtc ctgcttcacg acccgtttag 240

ctggagaaac atacttggga tcctaatacg gagaatcggg atggttctgt actcgacttt 300

gtgcactaga tagactcagc gaaaaccagc ataagcctcc ccgcaagccg ttcaggcaaa 360

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t 421

<210> 44894  
<211> 232  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-C12

<400> 44894

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cgcgtagaggc tctacgtaca gttcaccgtg cttggataca agcgggtccaa gtcgaaccag 180  
tacgagacta cgtcgctggt gcatatcgag ggggtgaaca ccaatgagga cg 232

<210> 44895  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F1

<400> 44895

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tcgttggtt ctgtacacgg aacaagcacc ttctgcatgg ctgaattttg cattgtgtgg 180  
cttggtgggg atcgtcacag catatgcttt tgtttggatt tcgaagtatt acacggatta 240  
taaacgagcc agtcgggctt ttagctcttt cgagttccac aggacatgga actaatatta 300  
ttgctggagt aagcttggga atggaatcaa cagcactacc agttctagtg ataagtgttg 360  
ccattatata agcatattgg ctggggcaga cctctggctt ggtggacgag tctggcaacc 420  
caactggtgg tctttttggg acagctgtag caacaatg 458

<210> 44896  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F12

<400> 44896

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ctataggaga tgcttcggtc cgtctacttg ctcgtttgaa aagcaagggg tccagaaaaa 120  
tcattttctag tgctgcctct gccaatggaa cacttttggc ctattcagat ggtgtgagac 180  
cctgcctctt tgcgctaagg cataaggggtg gaaagaagta tacccttgac aaattagagc 240  
taccaaaagg attgcctgt tctcagagta tggcggtttac ggttgattcg tccaatttga 300  
tacttgcggg acgtaatgga aaaatataca tcattgacat tgcaacaaga gaaatttcaa 360  
atgtatttca ccctacaaga aatgcagatg gatcataaat ttcaagagaa tcacctttaa 420  
cgaaaatggt 430

<210> 44897

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F2

<400> 44897

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tgccatacta gcgccccaaa cccacacaac atgtacctcg tgtctcactc tctttctcgc 120  
acgactttat cacaccaacc cttacacctg tccgcgtctc gtgaatacct accgctcaat 180  
tcaagctgat cccctccgac gatacgtctt ccacccttac tctcttcacg gctactccaa 240  
tttaccgcct gtcagtatct actgaatatg aacttgcact ttgaccctag tccccaaaag 300  
caatgactgc accagcaccg atctgctct 329

<210> 44898

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F3

<400> 44898

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ataatcctgt tctctctgag tgaatcaaca tgtctgggaa tgatgataag ccacatgctg 180

ctgcagacag aataaaggca gccacgttat cagtggctaa gggattgagc agggctcaag 240  
ctgaacgcgc tgcgactgct gctgcccga atgtgaatgc ctatgggcag aatgaagagg 300  
gaccaagccg ctggcaggag aggaaggaag ccacgagaca gatgtatctg atgagtacag 360  
agaaggctgc gaagctgggc actgtgaagc caaaagcttc agaaacttct tctgttggcg 420  
catataccca atgccagaag tgtttccagc atggtcactg 460

<210> 44899  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F5

<400> 44899

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gccttacaga tccgtcctcc agctagggta gcgttcctct gcagcgaggc gatcaagcgg 120  
accaaggcgg aaagaagatc gcgtacgaca agaagctggc agcctgctcg atgagtacac 180  
caaggtgctc atcgccctcg ccgacaacgt cggttccaag cagctccagg acatccgccg 240  
gggcctcagg ggcgactcgg tgggtgctcat ggggaagaac acgctcatca ggcgctgcat 300  
caaggtgtac gccgagaaga ccggtaacca cacctttgac ccgctcatgg acctcctggg 360  
cggcaacgta ggcctcatct tcaccaaggg agacctcaag gaggtgcgcg aggaggtcgc 420  
caagtacaag gtggggggctc cggctcgtgt t 451

<210> 44900  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F7

<400> 44900

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ctggactccg cccttcacag atccgtgcct gcagctatgg ttagcgttcc tctgcagcga 120  
tggctatcaa acggaccaag gcggagaaga agatcgcgta cgacaagaat ctgtgcaacc 180  
tgctcgatga gtacaccaag gtgctcatcg ccctcgccga caacgtctgt tccaagcagc 240



tccagtacat ccgaccgtgc ctcaagtgct actcgggtggt gctcatgggg aagaacacgc 300  
 tcatcaggcg ctgcatcaag gtgtacgccg agaagaccgg taaccacacc ttgacccgc 360  
 tcatggacct actggtctgc aacgtatgcc tcatct 396

<210> 44901  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-041-Q1-K1-F9

<400> 44901

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 gtcttgggaa ctgaggctga agatagccat cggcgcagct cgaggactcg cattcttgca 180  
 tgcatacaga aagcaagtga tctaccgtga cttcaaggcg tccaacatac ttttagatgc 240  
 gaactataac gctaagctct ctgatttttg ccttgctaaa cttgggccga ctggtagcaa 300  
 gtcacatatc acaaccaggg tgatgggaac gtatggctat gcagctccag agtacgtagc 360  
 aaccggccat ttgtacgtga agagcgacgt gtacggcttc nngcgtgtga tgctggagat 420  
 gctg 424

<210> 44902  
 <211> 451  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-G1

<400> 44902

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 atggagcggg gcgcctgccg tttcgcgggt cagtggctcg atggaccgcg cgctgggagc 180  
 atggaggagg tcggcattga gcgggtttgc tgcgtgcagt cctcgccggg gcaagacca 240  
 gtgcttatgg agttcctgga cggcgtgacc aagctggccg gggatgcaa cgtggaaaca 300  
 gtgtctcagg agatccacgt cgcgcgggta gtcaaaggcg gcgtccctgc aaacgcgtca 360

ccgtgatttc aacggaaaat ttggtccagc aagtaggcaa gcggtttgat gtgctggtt 420  
 ctgaggttgg ctatttgggtg cctctgattt t 451

<210> 44903  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-G11

<400> 44903

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 tcgccgtccg tggcgcgctt gccgccgtg ccgccgtgg cgaggtggaa gcaggggcgg 180  
 ggctcctcgc gccggccgtc gtcgcgccgc ctggccagca gctcgtcgtc cgacgacgag 240  
 tacgacgagg actcgaggaa cctcttctcg tcgcggagct tgctgtccga ctcgtccgac 300  
 ttctacagct gcccgcgccg gaacgccagc gccagcaggg ggcgcgcgtt cgtctcgggc 360  
 ccgtgccgcg cgctggcgct ggcgccggcg ccggcgcccc cgccgcgcgg cgcg 414

<210> 44904  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-G12

<400> 44904

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 tcgccgtccg tggcgcgctt gccgccgtg ccgtcgttgg cgaggtggaa gcaggggcgg 180  
 ggctcctcgc gccggccgtc gtcgcgccgc ctggccagca gctcgtcgtc cgacgacgag 240  
 tacgacgagg actcgaggaa cctcttctcg tcgcggagct tgctgtccga ctcgttcgac 300  
 ttctacagct gcccgcgccg gaacgccagc gccagcaggg ggcgcgcgtc cgtctcgggc 360  
 ccgtgccgcg cgctggcgct tgccgctgcg ccggcgcccc cgccgcgcgg cgctctcaa 420  
 agctgccggt a 431

<210> 44905  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-G3

<400> 44905

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gatttctggg ttctgtccaa attaggcctg aatcaaattg gcaatcatca caatgtctag 180  
tctctcgtgt atattgctgt tctttcttta ctttttaaaa aaaaaagaaa acacgcacac 240  
acaaataaat cagcaaacat gcacagttct cttcacacca tcagtagagc agtgcgagct 300  
cagtagctcg ccttggaaga cgttcgcgct ggctttccta ctctgaagaa agcagcggat 360  
cttgggcttt ctcaagcccc ggagatccag ctcgccatcg ggttccttca tcctactaca 420  
acaaacctgc cacattgcat aagcctccaa ttcgatactt act 463

<210> 44906  
<211> 388  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-041-Q1-K1-G4

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attcttgtga atttgtttgt aggagctaga cattagtgtt gttgaatgct gcatggttcc 180  
taatcctttt cgcagtctaa catctgtgga gttagtatgt tacatggcaa cagctgaaca 240  
tctgtggact ataactatat ggcaacagcc gaagattgtg tctgtgggat aactggttgt 300  
tntggttgct cttcagtagt ttgtttgctt cagtatggac tatggagtaa actgcatgct 360  
gaaacccgaa ccaactgctga aacggcag 388

<210> 44907

<211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-041-Q1-K1-G6  
  
 <400> 44907  
  
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 aggtcatcgt cggcgaggaa ggcggcggcg ccggtgttcc cgctcgccct gaccaagggc 180  
 caggtggtgg aggtgccggc cgtgcctgtg ccggccaagg acccggggaa ggagcagctg 240  
 ctggtgatcg aaggcatcga gtacgacccc caggcgaaca ataagttcga cgtcgccatc 300  
 aacctgcccc cggacaaagc gttgcaggta ggcccacagt acaaggagt 349

<210> 44908  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-041-Q1-K1-G7  
  
 <400> 44908  
  
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 gctggggcac cggactgtcc ggtggtgcac cggacagtgt ccggtggtgc accggacagt 120  
 gtccggtgga ccaggctgcc tcggccgaac aggccgctct cgggaattcg tcgacgacgt 180  
 acggctaaaa ttaccggac tgtccggtgt gcaccggact gtccggtgag ccaacggtcg 240  
 gtcgggccaa cggtcggccg cgtgatcggc gcgcgacacg tggccgagcc aacggtccga 300  
 aagaggcacc ggactgtccg gtgtgcaccg gactgttcgg tgcgccagat ctgcaacggt 360  
 cggcttcggc atttaaggaa aggaatcggg caccggacac tgtccggtgt gcaccggac 419

<210> 44909  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-041-Q1-K1-G8  
  
 <400> 44909

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 tgactcagcg gaagctgtaa atggagctaa cgatgagatt cctccactcc ctgatgacca 180  
 gattttccag ccagatgaac tggaacaact gttgcagtca atacaagaag attcccattt 240  
 gggctcaact atcattgacc ccatgcattc ttctatgaca aattcacttc tgcctgagga 300  
 cgattatttg atgttctatg atgcaccctt cgatttcact atttgtgatg atgggtatgg 360  
 acagaatgga aattttggct ccatagcagt ccatctatct ggcattggca tgattgaaga 420  
 ttgtatggca tac 433

<210> 44910  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-041-Q1-K1-E9  
 <400> 44910

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 gaagggaagt gtaatgcttg ctcaaatttg ttaactcttt tttatgttct tctcatggaa 180  
 ctctcactg acgccggttt tatgctagct tgaacactat tcctccttag ggtttgatga 240  
 aacaacattg ctgctcaata aagaaaagga gcaaggcaaa acacacacaa gggtttagtgg 300  
 aaaagcagat ggcaataaag caaagtcagc agaacttggt agccttggtg atgaaaaaga 360  
 gcaacgaaga aatcacacga aagttagtgg aaaactggat aatactgcaa agtccgcgag 420  
 agtttctgct acctgcgttg cgtacttaat gtc 453

<210> 44911  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-041-Q1-K1-C6  
 <400> 44911

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 gaagggccgg attcttgtat ttgcagttga agatggaagc ttgcaattga tcgtggagaa 240  
 agaaaccaa ggagcagttt attcgtgaa tgcattcaat gggaaattgt tggctgctat 300  
 caaccagaag attcaattgt ataagtggat gtcacgcgag gatgggtcac atgagctgca 360  
 atctgattgt gggcaccatt ggca 384

<210> 44912  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-C7

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 aggcacccgt tattgatcac ttgtctgaaa ctgttcttgg tgtcacaact ataagatgtt 180  
 tcaaaaagga gaaagaattt ttccatgaga atttagacaa aattaattca agtttgcgca 240  
 tgtacttcca caactatgcc gcaaatgaat ggcttggttt ccgactggag ctaattggaa 300  
 cacttctatt gtcaataact gcatttctca tgatcagcct gccaggaat tttatcaaga 360  
 aagaaatttg tggatgtct ctatcttatg gtctctccct caattctc 408

<210> 44913  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-041-Q1-K1-C8

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 ctgccaagga aggcaaagag aagaagtcac ccaagaaggc cgccgccgcc aagtcgcccc 180  
 aaaagggtggc cgctcgtag gtccctggca atgctgatgc actgtctctc tctgtcctct 240

ctgaactgaa acgctcctaa ctgtcgttgt cggtcatggt cgttgttggt tgatgcgctn 300  
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<210> 44914  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-C9

<400> 44914

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 aaccgagagc accaggggaa aggaagtgcg cctaggcatc gacatggagg acttctacgt 180  
 cacgatcccc tacagcctgc tgctcgtagc ctgcggcgta accggctaca tgaagcgcg 240  
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 gctcagcgcc cgggccttcg cgcacgccgg aagtggcact gccgccatct ttgccaccgt 360  
 ccttcatatc gaatgtgctg tgctattgac tgctcgtatg ggaataagat 410

<210> 44915  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-D11

<400> 44915

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 aacacgagta gccaaatctc agcttctgta gctcagaacg ggaaatacgt gatctgtgcc 180  
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 aggagcacag ttgacgttac caactcatc gaacatttcc actgccatgg tgtgaccgtg 300  
 gctgtcacat ggctgggtgc tgaagcccg agttcgtttg gacctggaag cagcaggcac 360

agtgattcag atggggcaat gaactctggc cgggaccttc cagttgagaa cac 413

<210> 44916  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-D3

<400> 44916

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cccacaatgt cgtcgctcaa ggagatcgtc ggcagcatcc agtcgcaggt cgccaagatc 180  
gatgatgaca tgaagggttcg agcagcagaa tataacaatg taaggagcca gcttactgca 240  
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gaggatatgg tctgctcata gcatc 325

<210> 44917  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-D6

<400> 44917

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tctcgctcag gtcaagggtc ccaaagagca gctgccgtag ctgcactatc ctctgtgctg 180  
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aagactgatg tcgataggcc tgtcataact ccagctggac catctgggtc atcttctcct 300  
cagtctgaaa ctggggagtc caatgtgttt cgccaggaaa aagatgctgc agtagatggg 360  
gcaccatctg aactgatgg agcagtggct gagacccgag aagaagaaac gacagaaaat 420  
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<210> 44918  
<211> 394



<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-041-Q1-K1-D7  
  
 <400> 44918  
  
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 aagcaaagtg ggagcttagc agttcgtgat ctttccaatc tggtaaaacc agaggatatg 300  
 gtctgctcag agcatctagt aacacttttt gctattgntc caaagtactc ccaaaaagga 360  
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<210> 44919  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-041-Q1-K1-D9  
  
 <400> 44919  
  
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 tgtgttgag tttttgcacc tggtgcaaac tgcgggctac agtatagttt ttgcgtttct 180  
 aagggaact ggattgagat ttgataagga tgcggtttgt aggaatttgc atgaacagtt 240  
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 gatgtgaaat gccaaat 317

<210> 44920  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-041-Q1-K1-E10  
  
 <400> 44920

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cggcggcggc aatggaggtc acctcctccc cctcgccttc cgcgcgcgcg ccggcctcct 120  
cgaagccggc gctccagctc aaccccgcg cgtcctcct cgcgcgcctg ccgaccccg 180  
ccccaacagc ggcgacgcc gtcaccgcga cggcgcccc cgcgcggccc gccaccgcgt 240  
ccaacccgct cgcggccttg ctctctccc tctggcgagg gctgcggcga gcgccgaaac 300  
agccggtcca ccccgctcc gccgtcgcgg cgcggagggc ggaggagcag caggaagcgg 360  
atgcggaagc gcggcagctg gtgggggtgcg cggg 394

<210> 44921

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-E11

<400> 44921

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gcggcttttt aaaggaggt gagctcctcc ccctcgcctt cgcgcgcgcg gccggcctcc 120  
tcgaagccgg cgtccagct caaccccgcg gtcgtcctcc ttgcgcgact gccgaccccg 180  
acccaacag cggcgacgcc cgtaccgcg acggcgcccc cgcgcggccc cgtaccgcg 240  
tccaaccgcg tcgcggcctt gtcgtcccc ttctggcgcg ggctgcggcg agcgccgaaa 300  
caaccggtcc acccgcc 318

<210> 44922

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-E12

<400> 44922

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gtgtgcgcct tctacgcga gaatgaggcc atcgaccggc ggagcgcct ccgccgcctg 120  
gccctcgaga ccatcgacct cgccaaggac ccctatttca tgcgcaacca cctcggcagc 180  
tacgagtgca agctgtgcct gacgctgcac aacaatgagg ggaactacct ggccacacg 240

caggggaagc ggcaccagac caacctcgcc aagcgcgccg tccgcgaggc caaggacgca 300  
cccgcgcagc ctcagcccaa caagcgcaag cttgcccccc gcaagtctgt taagattggc 360  
agacctgggt ataaagtaac caaacaatat gatcttgaga tgaagcaaca ctcgtttctt 420  
tttgaaattg gttaccgga aatcgaagat aattg 455

<210> 44923  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-E2

<400> 44923

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gcgcacccat cagtcccggg ttgccgacac actcctccta tagtacaatc tgcttctcaa 120  
tcatttcaac aactatatct cttctatcta gctgcgacgc cagagcacct atggaatacg 180  
aacggatcat ccaggatggt gtggatagac aacaaccgtc cgaaatacc tagacaaacg 240  
cacctgccac gaccaattcc ccacaaccta acaaagttcg cgtcgcagca ggattgccca 300  
cgaatgacgc tatatggacc gacctggtcc gcgaag 336

<210> 44924  
<211> 459  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-041-Q1-K1-E6

<400> 44924

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cgcccacgcc tcgagccggc catccgcctg ccgtcgcagc gcgcgcggc ggccgacgaa 180  
acggacgacg gcgacgtcgg gaccgcgtgg gctgtgctca tcgccggctc cagcggctac 240  
tacaactacc gncaccaggc ggacatctgc catgcatacc agatcatgaa gaagggcgga 300  
ctcaaggatg agaacatcat tgtctttatg tacgatgaca tcgcgcatag cccggagaat 360  
ccgaggcctg gtgtcatcat caaccatccc caaggtggcg acgtctatgc tggggtgcca 420

aaggattaca ctggtcgaga tgtcaacgtc gacaatttc

459

<210> 44925

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-E7

<400> 44925

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cccattctgt cagcctcagc tgtcattccc gcgaagcgcc gtctcccggc tctatcgatg 120

gaccgagtcg ccgccctcgt cgtcgcgctc ctcgccctct tcttcgccgc cggggccacg 180

gcgcaggccc cggcctcgtc gcccaagcgc actccagcgc cagcgccacc caggacggcc 240

ttcctcccgc cgccgcccgc cagggcgctt atggcctccc cgccctcgcc tcccgcgatg 300

gcgccggtgc ccgcgccctc cgccggcggtg ccggccacga gcccgcgcgg cgccgggagct 360

ggtgacgacg cgatggcccc cgccggagcc gcggcggtc tgactccggc tgccgcgccc 420

gtcacggaga 430

<210> 44926

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-C11

<400> 44926

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ctaagtcgtc tcggatggcg gcagcatcga cgtcggtagc ggtgctcccc gacggcggtg 120

ctgacgacga ggagcgctgg ctcgccgagg gcatcgctcg cgtccagcaa aacgctttct 180

acatgcaccg tgccctcgat tccaacaacc tcaaggacgc actcaagtac tcggcgcata 240

tgctatcaga gctgcgccacc tcgcgactat cgccgcacaa gtactacgag ctttacatga 300

gggcgtttga tgagatgaag aatctggaga tgttctttat ggaggagact ctccgatgca 360

actgctctgt ggttgatctg tacgagcttg tgcagcatgc tgggaatgtc ttaccgagac 420

ttcta 425

<210> 44927  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-G8

<400> 44927

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ttaggaggat agtgtttagt atgttcttca ggatacactg tcttggtgga ttctgtagga 120  
ggatgggttc tagtatgttc aggaatcagg atgcgctcgt cttggtgggt tttgcttctg 180  
atgacttcga tatgttccat ggcaaatgcg actttaaagt ttgggagact tataattcta 240  
caaaaaaaaaat ttatattata tataaatata taataaatat aattaaatat tataattttt 300  
ttttatatta tatatttttt ttaattatat attttttatt ttttttatta ttttaattatt 360  
atttttttta tttatatttt tttttatatt tttt 394

<210> 44928  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H1

<400> 44928

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tgtcactctt catcaacaag attttgaatg cttttgtaac ttgtttcaaa ccatgcttgt 180  
tcctttgata gccattagtc aagatgtatc cttaatggga gtgaatagac ccactcatct 240  
tataacctac aaactctttg gaggcagagc gctccagtat tatcgcgagag ctgaagcaat 300  
tgagtataaa tattttactg ttgatggaga taaaatttca agatatttca tcgtttcgta 360  
tcgatttcag gttgtaatgg aagttgtttt taatctacgc aattttcact gttaaggtgt 420  
tg 422

<210> 44929  
<211> 61

<212> DNA  
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 <223> Clone ID: LIB3076-040-Q1-K1-H10  
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 c 61

<210> 44930  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-040-Q1-K1-H11  
 <400> 44930  
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 acacgcttca gaggtcatca ctctgtggaga aatctatgca gaaaccgcag gaaaggatgt 120  
 ctgttttata tgatgtgctg caaagaagca actatgatgc agagcccatg ttgaaggcat 180  
 gcgggattac aattgctaga aatttcacag aagttgatgg taggggtattg cagccaccta 240  
 agcttaaagc tgggaatggg gaatacatTT ttacacgcaa tggtagatgg aacttcaaca 300  
 ataagaggct cattagagct tgtagtgtcg agaaatgggc ggtggtaaac ttttttgcac 360  
 gatgcaatgt caaggatctt gtccgggatc tcattaagtg tgtaagcatt aatggcatta 420  
 tggttgatgc ttc 433

<210> 44931  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-040-Q1-K1-H2  
 <400> 44931  
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 ttaggacgat agtgcttagt atgttcttca ggatacactg tcttggttga ttctgtaaga 120  
 agattggttc tagtatgttc aagaatcaag atgcgctcgt cttggtgggt tttgcttctg 180  
 atgacttcca tatgttccat ggcaaatgcg acttttaaagt ttgggagact tagaattcta 240

caaaaaaaaaa ttatttttaaa ttaatatatt atttaataat attaatttaa ttattattta 300  
 ttattttttt attttttttt ttctactttt aatttttttt ttattacatt tttttttattc 360  
 tttttattta ttttttttat tttttatatt ttttattt 398

<210> 44932  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-040-Q1-K1-H4  
 <400> 44932

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 ataccagggg acaagcagtg accaatccac tattctgtcc gaagataatg gatgacgttt 120  
 gtttcttcag aatcagatag acagcttcta ctcatgaggc agcaggatga agaacttgat 180  
 gagctcagtg aaagtgtcca aaggattggt ggcgtgggac taaccataca cgaagagctg 240  
 tctggacagg aaaggatcct aaacgacctt agcttggaga tggagactac ttccaacaga 300  
 cttgatttcg tgcagaaaag agtggccatg gtgataaaga aggccggcat caagggtcag 360  
 atcatgctga tcgtgttctt ggttgttctg ttcattcttc ttttcgtttt ggtgttcttg 420  
 acatagccaa gtgca 435

<210> 44933  
 <211> 257  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-040-Q1-K1-H5  
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 ggaggatggg gtttagtatg ttcttcagga tacactgtct tgttggattc tgtaggagga 120  
 tgggttctag tatgttcagg aatcaggatg cgctcgtctt gttgggtttt gcttctgatg 180  
 acttcgatat gttccatggc aaatgcgact ttaaagtttg ggagacttag aattctacaa 240  
 ataaaaaaaa ataaaaa 257

<210> 44934  
<211> 235  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H7

<400> 44934

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cactggaatc ggtatgctct tcagcacaac aggcgtttca aaacgcgagc tccgcttaac 120  
acgataacct actgctggat cacttaacgg gcacctgctt ctcaatgact actaatctat 180  
attgccgcta agtactctat gcttccttg cggctctggct ttatctacct ctccc 235

<210> 44935  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H8

<400> 44935

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gggggcatgc aggaccaacc actattctgc cgaagataat gatgactttc tttcttcaga 120  
atcagataga cagcttctac tcatgaggca gcaggatgaa gaacttgatg agctcagtga 180  
aagtgtccaa aggattggtg gcgtgggact aaccatacac gaagagctgt ctggacagga 240  
aaggatccta aacgacctaa gcttggagat ggagactact tccaacagac ttgatttcgt 300  
gcagaaaaga gtggccatgg tgataaagaa ggccggcatc aagggtcaga tcatgctgat 360  
cgtgttcctg gttgttctgt tcatcattct tttcgttttg gtgttcttga catatccaag 420  
tgcacc 426

<210> 44936  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H9

<400> 44936

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ttgaaacacg cttcatttgt catcactggg ggagaaatct atgcagaaac cgcaggaaag 120  
 gatgtctgtt ttatctgatg tgctgcaaag aagcaactat gatgcagagc ccatgtttta 180  
 ggcatgcggg attacaattg ctagaaattt cacagaagtt gatggtaggg tattgcagcc 240  
 acctaagctt aaagctggga atgggtgaaga cattttttaca cgcaatggta gatggaactt 300  
 caacaataag aggctcatta gagcttgtaa tgtctaaaaa tgggcggtgg taaacttttc 360  
 tgcacgattc aatgtcaagg atcttggtcg ggat 394

<210> 44937  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-A10

<400> 44937

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 tacaatgcta tcaaggcaat gcttctagta agcacctcgc aatggccacg atcaccatga 180  
 acaccattca tcctaaagag accgtagaaa agatgcaacc ctacatgacc aatacacacc 240  
 atggagaaca gcacacacac tcaacacatc aagactctaa acatgacaac caaacacacc 300  
 gtacaagtcc ac 312

<210> 44938  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-A4

<400> 44938

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 taaaggatgat agctgcaaca aatcgtgctg atattcttga tcctgctctg atgagatctg 180  
 gtcgtctgga ccgtaagatt gaggccctt atccatcaga ggaagcaaga gctaaaatcc 240  
 tgcagatcca ctcgaggaaa attgaatgtg aatcccgatg tcaactttga agagttggcg 300

cggtcaaccg atgatttcaa tggcgctcag ttaaaggctg tttgcgtaaa ggctggcatg 360  
 ctcgctctac gccagatgc tacagaagtt acccacgaag attttaacga ggggatcatc 420  
 caagtgcattg caaagaagaa gttcagcttg aattact 457

<210> 44939  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-A5

<400> 44939

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 ccttatgaat tccattgttc catatatcaa tcaacattga ctactgaac aacaaaattc 120  
 aatacaccta attttgctaa tcaccacaaa cttatcttta cattaattca acctataaat 180  
 tatatcttta accaccatat tattcaattc attttaattc cctaacttat aataac 236

<210> 44940  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-B1

<400> 44940

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 gtcttcaccc agttctggta ctggtacccg ctacactact tcataagcct ggcttctctc 180  
 ccgacggccc tcatcggcct caactccgac ctgaaagtgc ccaagtttga gttcctgtcg 240  
 aacgcgaagc cgtcgctgtt cgattacccc aagccagtga cccaacagac cacagtcacg 300  
 tcagtcaatg tgccggcggt catcctgtct ac 332

<210> 44941  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-041-Q1-K1-B10

<400> 44941

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taagagactc acagggttca cgttcctgcg gtgggccacg cgggacgccg ttgtgcagat 180  
gctctgcctc tggttctttg cggatgtgca cgatcaggcc cagctgttca ggctctttgt 240  
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aggcccagag ctcatggtt tctttgttgc ctgggctgtt cttgatgcag tgggtgcagt 360  
nttgttcact gtggtgcctt ggggtgttgt catggaccgt gatccacggt cgtctgggca 420  
caatgctgtg aaggaagggt gctatcttgt gtc 453

<210> 44942

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-B6

<400> 44942

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cgagct 66

<210> 44943

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-B8

<400> 44943

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gggcgacctg taaccatcga aagcgtgagt gtgacaggcg acatgactcg cggcaaccag 120  
cgtgaccgcg atcgtgagcg cgcggcggcg cggaagccca acggcaaggg gcccacatgac 180  
tggctcacc c 191

<210> 44944

<211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-040-Q1-K1-G3  
  
 <400> 44944  
  
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 ttttttatat cttttttttt ttttttatct tttttatta tctttttttt tttttttttt 180  
 tttttttatt tattcttttt tttttatata ttttattttt tttatttttt tatatttttt 240  
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<210> 44945  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-040-Q1-K1-A3  
  
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 cggtcggtct tagcgtcatc agagatcccg tctccagcag caaccatctg ggctgcccac 240  
 catcaccacg tcttcgacta acatcctttc tctttatacc atattgcaa tgttttccga 300  
 tgctgttgca atgagcatgt catcgaggat cttagctttt ccttttagat cctatcttct 360  
 tctaattatt ccgtcagggt acctatctt 389

<210> 44946  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-040-Q1-K1-A5  
  
 <400> 44946

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gcaggtgccc ggcctaaacc cgccggtcga tctcgctgc tgcttgttcc cgagtgcctg 120  
ttccccgtcct agtttacata gggccgctct cttccctgga ttgactgccg tcgccggtgg 180  
cgcccggtct tagcgtcatc agagatcccg tcttcacag cagccatctg ggctgcccac 240  
catcaccacg ttgtcgtcaa acatccttcc tctttataacc atattgcaa tgctcgtctga 300  
tgctgttgca aagagcaag 319

<210> 44947

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-040-Q1-K1-A9

<400> 44947

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tccagaagaa gagagctgag aagccagagg tccgcgatgc tgctagagaa gctgctcttc 180  
gtgagatcaa ggagcgcac aagaagacca aggatgagaa gaaagcgaag aaggcggagg 240  
tgagcaagtc ccagaagacg cagacaaagg gtgcggtcca gaagggttcc aagggcccca 300  
agttgggagg cggtggtggg aagcgtgaa agaacttagn tgctgttctc gacattgcag 360  
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<210> 44948

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-B1

<400> 44948

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tcgttctctt ttataattcg gatggtgctc attcacatta gtccaccttc tccaaagtca 120  
tcaatgcttt cgatgtccat tatgtcacct ccaact 156

<210> 44949  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-B12

<400> 44949

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agaatatata atatgatgag ctcataacaa acatgctgga tacccttgtc aatttagcac 180  
ctttgctgga cctgaggatc ttcatctcat ctaagccctc gttcattaaa atgaccgata 240  
aagggtgcaat tcatgccata atgggtattc tttcttcttc cgtaaagcca ttgcactgtg 300  
ctgctgctga attgattttc cgtcttataa taaatccata ctacgatcca tttcttcttc 360  
ctattattcc acatatatac aaac 384

<210> 44950  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-B8

<400> 44950

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cggaagagc aaggatgacg acgattctga tgaggacgag actgatgatt ctgatgagga 120  
tgagacggac gattctgatg agggtttgtc tectgaagaa ggcgatgatg attcaagtga 180  
tgaagatgat accagtgacg atgaggagga agacactcca actcctaaga agcctgaggt 240  
aggcaagaag agagctgctg aaagttccgt gctgaaaact cctctatctg ataagaaagc 300  
aaaggttgcc acaccgtcat ctcaagaagc aggtggcaag aaggcgccg ccgtccatgt 360  
ggcaactcca caccagcaa aaggcaagac cattgtaaac aatgacaaat cggtaagtc 420  
tcaaaatct gcgcaaaat t 441

<210> 44951  
<211> 291  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-C12

<400> 44951

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ttaacgcttt agcatcatca cacttcacta cacaagggtga ggatacaatt taagtcaatt 120  
cttttctggt cctgctacaa tgaaggaaga tataactgct tatattacga ataccaataa 180  
tatcatacta tatgttaatc gtgtattcat atcatatgac ttgatggag aattgttccc 240  
aacatattcg agctttgtca aagggtgtgt tgactcaaat gaccttccat t 291

<210> 44952

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-C6

<400> 44952

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ggagtgagat agtcgctatt ggctgccgtg tagttacctt atactcatct acttctaattg 120  
atggataatg tgattgcctg tatctgacct atcatgcatt acttgtatcc tttctttttt 180  
cttaataatg ctctacctt cttctcctat aatgtttata atgctcttta attcttttct 240  
cctttccttt tcttaaattt ataccattaa ta 272

<210> 44953

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-D10

<400> 44953

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ttttttcaag aaaaccttca ggcattactt taaccctttg gcatcatcac acttcactac 120  
tatagggttag gtacaaatta cgtcaaattc tttatgttct gctacaaaga aagaaaaatt 180  
aacttcttat aataagaaaa ccacaatat tatactatat gttaaactg tattcatatc 240  
ataatacctt ttattgataa aatttcccaa aatattttta ctttttcaaa tttatttttt 300

actctaaata cccttccttt aatgtttctc tttagatttt tcaataaaat ccaattgttc 360  
 ttataattaa aaaaaagctt attctta 387

<210> 44954  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-D11

<400> 44954

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 ggttttgtgc ttgtagtaga attttgaagt tggagctttg ttcttggagg aatgaatggt 120  
 tattgtgaaa aagatcttta tttttcaact atatcacgtg taactattaa cttggtcctt 180  
 tcaactttat ctctgtgctt gaaagtgcc agcaccact cctgcagtac ttttgggtcaa 240  
 actgccaaag tactacttgg tacttagtgt tagatgtaaa tagtgtgcat gtatttagtc 300  
 tctagtacag ggtgctgttt gcactttgta cttcatattt ggctctttgg ccgttgcaat 360  
 aggctgagct gcacattcct agcacttagc acctttaatt ttaatcatca taaatgacat 420  
 cctttaatc 429

<210> 44955  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-D3

<400> 44955

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 ctggtcctga tgggcgtatt ttgaaggcag acattgaaga ttacttggcc aaggggtgggc 180  
 tgagggaggc ttttgcagct ccagggttag gttacgttga tattccaaat gcacagataa 240  
 gaaaggttac cgcaaaccgc ttgctagcat ctaaacagac cattcctcat tactacttga 300  
 cagtagatgc acgtgttgac aaacttgtca agttgcgaag tgaactgaat ccaactgcaag 360  
 atgcttctgg tggaaagaaa atatctatca atgatcttgt catc 404



<210> 44956  
<211> 155  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-D7

<400> 44956

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cccattaact ctctccatat aacaacttac cactatcaac tttcaaactct actatcccta 120  
attttcatct ttataaatca cacatttaac attac 155

<210> 44957  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-E1

<400> 44957

cccacgcgtc cggatccaaa caaacctctg tgttgggggt ctccgggggt ccttgcgctg 60  
gagggaggtt tcgttctcgc tggccatggt ttggctgaga agcagcagcg gcagcatctt 120  
gatgccaaat ctctgagctt tatgaagatc gccactcacc tgcgccgctc ctgcttctct 180  
cactccttct cggttgtctt cctctactgg ttttatgtga tctcataact tgccctcccc 240  
cggatccgcc attccccctg gccctctctc cgtccctca accttctccc tcttttcttg 300  
cttccctcaa caatcgccaa ataacagcac tagcggcagc ggtagaggat cttttcgagg 360  
taagctaggc cggccggttc cctgcgggaa aaagaaaaga aaaggaacct gtcttgatgt 420  
cgtcgtcgtc gc 432

<210> 44958  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-E3

<400> 44958

cggacgcgtg ggcggacgcg tgggcggacg cttgggcgct caaggtecca gccactgttc 60

gtcccggggc cgatgactgc gaccagctgc gcaaagcatt ccaaggggtgg ggcacgaacg 120  
aggcgctcat catctccatc ctcgccacc gcgacgccgc gcagcgccgc gccatccgcc 180  
gcgcttacgc cgaggcctac ggcgaggagc tcctccgctc catcacggac gagatctccg 240  
gcgacttcga gagggccgtg atcctgtgga cgctggaccc agcggagcgc gacgcggtgc 300  
tggccaacga ggcggcgcgg aagtggaagc ccgggaaccg tgtgctcgtc gagatcgctt 360  
gcacgcgcac ctctgcgcag atcttcgcga ccaggcaggc ttatcacgag cggttcaagc 420  
gctcgcttga ggaagaca 438

<210> 44959  
<211> 149  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-E7

<400> 44959  
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tgttccgtcc tggccaatg actacgagca gctgctcaaa acattccaag gctatttcac 120  
taactatgct ctcatcatct ccattctct 149

<210> 44960  
<211> 120  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-E8

<400> 44960  
gactctacac ttgggttgat actgggcacg aagtacagtt tataaatgtg ttctaaagaa 60  
ttgcgaacca gtggcattta aaaagctgta tgcccactac cctcatagcc ttaatgaatt 120

<210> 44961  
<211> 234  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-F12

<400> 44961

cctcccactc ttcccttccg tttctgcttt gattctagga ctacgtgccg cgcgtacttt 60  
 ctaacttgtc aggccttgat atttgttgaa ctagegcctc atcctccacc ttcaccacta 120  
 actctccgaa gaccatgcct agatccaatg gcaactattc tcctcttctt acttctcatc 180  
 actcacctct ttacctcaat actactgcct ttttctaagc taattgctct cacc 234

<210> 44962  
 <211> 462  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-G1

<400> 44962

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 tattatttac tttttttatt attttgtttt atttttatat tttttttttt tttattttta 180  
 tttttatata ttttttttta tttatttttt attttttttt ttatttcttt tttatttttt 240  
 ttttattttt tttattttat tttattttatt ttattcttct attttttatt ctttttatta 300  
 tttatttttt tatttattat tttttatact atatttttat attacttttt atttattttt 360  
 catactttta ttttttttta tttttatttt ttttatatta ttattatttt tttatatttt 420  
 ttattttttt tctttatttc attttttatt atattattta tt 462

<210> 44963  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-A10

<400> 44963

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 ccgcgcctt ggttgaggcc tgcggcctgc gctaaccggg aagtctctca gtgcgtgttt 120  
 ggccgaaatc cacggggagg gcttgctctc gcctttgctg agctgctccg gagcggagcc 180  
 gtgcctactt gagttcaggt ttgtttcgcc atccgaggcc aagattcgga gcgtcgccga 240  
 agggaggcga tgaagggcaa aggcggggcc gtggacagga ggtcctccgc caggtggagg 300

ttgctggtgc tctgcgcatc cagcttcggc atcggcacgc tcttcaccga cgggttctgg 360  
acagcaccgg ataccaatag ccataccatg tctcaacgct tgatgcaaga gcaagagctt 420  
caacttgatc cagaagattg catc 444

<210> 44964  
<211> 336  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-040-Q1-K1-G12  
<400> 44964

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cgctgctgt gaggaagtaa gtgtcggatg agcttgctgt ggtggctgag tctaaagatg 120  
ttgctgggga atttatcact tatgctgtgc ttgatcaagt tcttggtgat aaggcatttt 180  
gaaaattatg gaagtgggtc atctcgcttc gtttttcata ccatttggca ggatcttaca 240  
taaaggctct ttcatcgaag ttgttttgc cagatgcaat tcaaagtta tagatgacaa 300  
tataatttgc ttcttgcca tactaacatt atttgc 336

<210> 44965  
<211> 285  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-039-Q1-K1-C7  
<400> 44965

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taacttttaa acgttcgtcc ggccaatgaa cggatggag gcatagatga tcgatgtggt 120  
gctcaacgac cgctgttga agaattgtgc gttcaagtgc aactatgacg acaccatctg 180  
ctacctcaat aatctgttta catcacatac tgtgactcgc ccctataata tcttcattca 240  
taattgttac aacatctaca attaccacat caccctcaaa gacta 285

<210> 44966  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D4

<400> 44966

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ttgtttcacc tcccaagtcc gaggtgtccg atactgggtga cttactgggc ttttatgata 180  
caaatccttc tgtatcatct atatattaat tgcaatttct ctttccttct ctatttttcc 240  
tacatatattt tcttttctca ttctcttttt ctctttattt taattatttt tttttttttt 300  
tttatttttt tttatctatt ttcttggttt ttttttttat tatttttctt ttttttttat 360  
tttttctttt tttattttta ttttttttta tttattttat tatttttttt tattttattt 420  
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<210> 44967

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D5

<400> 44967

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cctaatacca agaagacgta gtgcaagaac aaagagtga agaagcacac actccacaag 120  
gtgactcagt ataagaaggg caaggatagc ctgtctgccc agggaaagcg ccgttatgac 180  
cgcaagcagt caggatatgg tggtcagacc aagcctgtct tccacaagaa ggccaagacc 240  
accaagaaga ttgttctgaa gctgcagtgc cagagctgca agcactactc acagcacgcc 300  
atcaagagat gcaagcattt tgagattggt ggagacaaga agggcaaggg cacatctctt 360  
ttctaagctt ctcgtccacc tgtctggttg ttgagttgaa gctgtgggtc tactactact 420  
gttataaaaa 430

<210> 44968

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D6

<400> 44968

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atgactcagt ataaaaaggg caaagatagc ctgtctgccc atggaaagcg ccgttatgac 180

cgcaagcagt caggatatgg tggtcagacc aagcctgtct tccacaagaa ggccaagacc 240

accaagaaga ttgttctgaa gctgcattgc cagagctgca agcactactc acagcacgcc 300

atcaagagat gcaagcattt tgagattgat ggatacaata aaggcaatgt cacatctctt 360

ttctaaactt catgttcacc tgattggttg ttgagttgaa gctgtgggtc tactactact 420

ggtataaaaa cattgtttca aaat 444

<210> 44969

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D7

<400> 44969

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taataccaag aagacgtact gcaagaacaa agagtgaag aagcacacac tccacaaggt 120

gactcagtat aagaagggca aggatagcct gtctgcccag ggaaagcgcc gttatgaccg 180

caagcagtca ggatatggtg gtcagaccaa gcctgtcttc cacaagaagg ccaagaccac 240

caagaagatt gttctgaagc tgcagtgcc aagctgcaag cactactcac agcacgccat 300

caagagatgc aagcattttg agattggtgg agacaagaag ggcaagggca catctctttt 360

ctaattctct tgttcacctg tct 383

<210> 44970

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D8

<400> 44970

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tctgttcata ccaatcctct ctccacaat aattccaata ccaccaataa tattattctt 180  
aatcttcatt tccatatctt caatcactac tcacatcact ccatcaatat attcattcat 240  
ttttatattt ttttatacaa aatatactaa ttcacatctc ttttctaaac ttctctttca 300  
cctttcttgt tttttatttt aaacctttat ttctactact actattatta aaacatttct 360  
caaattt 367

<210> 44971

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-E3

<400> 44971

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cagcactgta aagccagaag atgttgctgc ctcatcctc tgtccagaag aatcgaacca 180  
tgcaactaca ccaattggca gtgctgaact atctaataatgat gttgctcagg cagctatcac 240  
tcctgcagct atcactcctg attcaacaac tccaaatggg ggtaataaac tggaaacatg 300  
gctgcaagaa ctgttgatc cttcacctcc atttaacctt gtagctgata ctggttctgc 360  
tgacgtgtgt ccgactgaac aatatgctga atcatcaaat ttgcagaatc ctggttccat 420  
ggctccgaat atcaaaccag gcca 444

<210> 44972

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-E4

<400> 44972

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taatgttgnt atcaacagga gctctgatct ggaacaacca gatgctgcta catcagttgt 120

cagcactgta aagccagaag atgttgctgc ctcaagtcac tgtccagaag aatcgaacca 180  
 tgcaactaca ccaattggca gtgctgaact atctaatagat gttgctcatg catctatcac 240  
 tcctgcagct atcactcctg attcaacaac tccaaatggg ggtaatgaac ttgaaacatg 300  
 gctgcaagaa ctgttggatc cttcaccttc atttaacctt gtatctgata ctggttctgc 360

<210> 44973  
 <211> 193  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-E9

<400> 44973

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 atcatacaat tcataatcta aatatatata tataaataact attattaccc ttttctttct 180  
 atttactatt tat 193

<210> 44974  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-F1

<400> 44974

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 attcgacagg tattgttcac agaataataa acctcaaaat gtgatatttt tatagttatc 180  
 actaaccttt aattatttac cttttatatt atcttactca tttttttta ttaatctaata 240  
 tcttatttaa ttttttattt tttatttctt tcttttttat ttttttattt taattccttc 300  
 tttattaatt tttctatttt tttttttttt tctaattctt tatattattc tttatctttc 360  
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 tttttttttt ta 432

<210> 44975



<211> 367  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-039-Q1-K1-F10  
  
 <400> 44975  
  
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 ccaagtactg gtcgctcttg cctttgtcca ggcaatcctg tgaaacgcac ctgcccccca 300  
 gttcatccgt ggaacaaaacg ccttttgtag ttgcttgctt gctatgttat gatggatcct 360  
 ggtctgc 367

<210> 44976  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-039-Q1-K1-F2  
  
 <400> 44976  
  
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 cacctccaag aaggcagctc tggttaatgg gactccttga agctttggcc cccggagtag 180  
 acgtgtctgt aggagtgtgg tttgttatat ctagattatc tgcagtagct tagtccatct 240  
 aaatgaaatg tgacagctga actttggaag tcgcatcatt ggggaaacga aatttaagtc 300  
 gattgatttg ttaatgccct cgttgatgta atatttcctt tgttcggtgg atttcgggtc 360  
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 gcatggagga tgtttcttgc atgt 444

<210> 44977  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-F5

<400> 44977

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taaagttcat ccaagtcttg atgactctgt tgggtgtccaa tccaagagca ttagtggcga 180  
aacaatatcc aagctgtcta aaatggtgat tgtacttgaa gaagaaaaat cgaagagggtt 240  
tgcaaagatt caagctctag cttcccagct atctgatctt tggaacttaa tggattctcc 300  
tgtggaggaa cagcaacctt ttcgtcacgt aacatgcata atgtcctcaa cattggatga 360  
tgtgatagtt ccaggagctc tggctcttga tgtaattcag caagcggaac tcgaagttga 420  
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<210> 44978

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-F7

<400> 44978

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gttcatccaa ctcttgatga ctctgttggg gtccaatcca ttatcattag tctcgaaaca 180  
atatccaaac tgtctaaaat gattaatgta ctttaataac aaaaatccaa tacgcttgca 240  
aatattccaa ctctatcttc ccaactatcc tatecttgta acttaatgta ttctcccatg 300  
gaggaacatc aaccctttct ttacctaaca ttcataatct ccttaaca 348

<210> 44979

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-G2

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 caccgactac cactccctca acaactcctt cagcacctac ttctaggtcc tcgagtcgaa 180  
 gatcatcctg tatcggtaga ctcatatgtc cctcgtcttc tgcttcttca ccttcttcac 240  
 ggatgactct attcgcactc ccatcta 267

<210> 44980  
 <211> 193  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-G7

<400> 44980

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 aacctatact gttaattctc aactgggtgcg acagcgattc tactatttgt gcttgaataa 120  
 tgcttttagca ttctgaggtg ctgcacactt ctcatgtgcc atctatcata atatcttaca 180  
 tgcacgcact gat 193

<210> 44981  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-A1

<400> 44981

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 gctgcccggc ctcaaccccc cgttcgatct cgcttgcctc ttgttcccga gtgcctgttc 120  
 ccgtcctagt ttacataggg ccgctctctt ccttggattg actgccgccg ccggtggcgg 180  
 ccggtcttag cgtcatcaga gatcccgctc ccagcagcag ccatctgggc tgcccaccat 240  
 caccacgtcg tcgtcaaaca tctcctctct ttagaccata ttgccaatgt cgtcggatgc 300  
 tgttgcaagg agcaagtcag cgaggagcta agctttgcct tcggctcccg tctccgccga 360  
 agcatccgtc cgggtcaccg agctttcaag actgacgagg tcatccacat atttctcatt 420  
 catcacctgc gaag 434

<210> 44982  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-C6

<400> 44982

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aacgttctta cgtccggccg gggaatgagc ggtagggagg ctgagatgat cgatgtggtg 120  
ctcaacgacc gcctggggaa gaaggtgagg gtcaagtga acgatgacga caccatctgc 180  
gacctcaaga agctggtggc ggctcactgt gtgacgcgcc ccgagaagat cctcatccat 240  
aagttgtaca acatctacaa tgaccacatc accctcaatg actactatgt ccactacagc 300  
atggtccttg agctctacta caac 324

<210> 44983  
<211> 264  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A5

<400> 44983

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gaaaatgcat aaatatgacg cccggatatc cccattttat tttgttgaat ctgtatgatt 180  
ctttggggtc ttaactatac tgctccgtat gtacttcaaa atcctatatt tttattccaa 240  
agttgttgcc tatgaatttt gtac 264

<210> 44984  
<211> 396  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-A6

<400> 44984

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gcagtggatg tgagaagtgg aaccggcca attcaactat gctgcaggtc ctggtctcta 120  
 ttcaagcttt ggttttgaat gcaaagcctt atttcaatga gcctggctac gctatgcatg 180  
 ctaacacagc ccacggggag aagaaatccc tgacatataa tgaagacacg ttcttgcaact 240  
 cctgcaggac gatgctgtat tctcttcgaa atccaccaa gaatttcgag gattttgttg 300  
 ctggccattt ccgcaagtat gggcgcaaca tcctcgtggc ttgcagagcc tacctggagg 360  
 gtgcccaggt tggatgcctc tncggtgacg gagtgc 396

<210> 44985  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-039-Q1-K1-A7  
 <400> 44985

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 aacacgtana cgtacacttt atatcagaag tggcacaccc tcaattcaac tattctgcac 120  
 ttctgttct ctattcaagc ttggttttt aattcaaagc cttatttcaa taagcctttc 180  
 tactctatgc atgctaacac atcccacctt gataacaaat ccctgacata taatcaagac 240  
 acattcctgc actcctacac gactattctc tatactcttc caaatccacc aaataatctc 300  
 catgatcttt ttactagcca tttcctctaa tattatctca acatactcat ctctttc 357

<210> 44986  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-039-Q1-K1-A8  
 <400> 44986

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 cttgatggcg cccgctgtag aagccgtgaa ggagacaggc tcgttcaga aggttctgc 120  
 cttgaacgaa aggatactgt catccatgtc caggaggtct gttgctgcac acccttggca 180  
 tgatctggag ataggtcctg gtgctccaac catattcaac tgcgtcattg agataccaag 240

gggcagcaag gttaaatatg aacttgacaa gaaaactgga ctgatcaagg tggaccgtgt 300  
gctgtattcg tcagttgttt accctcacia ctatggattc attcctcgca ctctttgtga 360  
agacagtgat cctttggatg tactggttat aatgcaggag cctgttatcc caggctgggt 420  
cctacgtgcg aaagctatcg g 441

<210> 44987  
<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A9

<400> 44987

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ccataagggt ccttccttga actaaaggat actgtcatcc atgtccagta ggtctgttgc 180  
tgcacaccct tggcatgac ttagatagg tctgttgc ccaaccatat tcaactgcgt 240  
cattgatata ccaatgtgca gcaaggtaa atatgaactt gacaagaaaa ctggactgat 300  
caatgtggac cgtttgcgtt attcttcatt tgtttaccct cacaactatg gattcattcc 360  
tcgcactctt tgtaatac 379

<210> 44988  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B10

<400> 44988

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cggtttcggg ggtcagcgga tcgagatctc ggcgtctgat gctgagtacc gctacttcat 120  
cagcggcctc tactgagcca ccgactacca ctctctacac aacgccttca tcacctacag 180  
cgacgtcctt tagtccaaga tcctcctgga tcgctatacg cataggtccc gcggcttctg 240  
cttcatcacc ttctacacgg acgacgcgat gcggaacgcc ataaagggca tgaactgcaa 300

<210> 44989

<211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-039-Q1-K1-B11  
  
 <400> 44989  
  
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 tcctcctcta acactctcac ggtatactgc accatttaac attgaaagac ctcatctgca 120  
 tcactttatg cagccaatat tcaacatctc ctaactgcc a tgtacagtct acaccaacca 180  
 actcaatgac attacaataa tgatagatac atgcatcact gacaagacta tgatctatac 240  
 tatagaagct tgctaactag ctaattaagt cttttatctg agataatcga ctaccaatct 300  
 ttcacgaatc agcatatgta atacagttac cttgacctat tacccttttc aaccatttac 360  
 attaacatag acaactatta ctacaaacac ttcaactgat ccactaacat tc 412

<210> 44990  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-039-Q1-K1-B12  
  
 <400> 44990  
  
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 ggcgagcgac tagcaccagc actggtacaa ggacatgcgc ttcagcacc aggtcaagga 120  
 cgaggagggc aaccctgcgt tcgccctggc caacaaggcc actgggctcg ccatcaagca 180  
 ctccctcgcc cagtcccacc cgggtgaagct ggtgccgttc aaccgggagt accaggacga 240  
 gtcggtgctg tggacggaga gcggcgacgt gggcaagggc ttccgctgca tccgcatggt 300  
 gaacaacatc cgtctcaact tcgacgcctt acacggcgac aagggccacg gcggcgctgca 360  
 cgacggcacc accgtggtgc tgtgggagtg ggccaagggc gacaaccaga gctggaagat 420  
 cctgccctga ggcgacgagg cctacgccgc ggg 453

<210> 44991  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B2

<400> 44991

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cactcggttag gaacccttta attacacatc ctctttccaa aatattccta cctttatcta 120  
aatgatactc tcatccatth cctataaatc ttattcttca caccctatcc atcatcttta 180  
tatatatact attactccaa ccatattcaa catcttcatt catataccta tttacatcaa 240  
ttttaaatat caacttttct atataactct acttatcaat gtttactctc ttctttattc 300  
ttcatttttt tacc 314

<210> 44992

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B3

<400> 44992

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agttcaattt aaaaaccttc tggccaataa attcatcctt acccactaac acctcaataa 120  
tttcatcttc ttttttattc tacctcaatc acatctcttt cctactatta tacttctcac 180  
cctacaaaca catcatacca tatctcaacc ttcataatca cattcctttc caaaatacaa 240  
ctctcaaaac ctccatttac tacaattact ccttcttcta caaatttatc aactacttca 300  
ttaacatatc ttcatctatc catacatcct ttcccaattt catacttctt cttttctacc 360  
c 361

<210> 44993

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B5

<400> 44993

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tcaaactata gcctttctgg catagacatt caaccttccc ctgttacacc tcaatatgat 120



gatcttcttg atggtacttc ctcaatcaca tctcttcctt attagaatac tgcttaccat 180  
acaatcacag cattccatat tgcaacctac atgatcacat tctttttcaa aaagcaacct 240  
ggaaaacctc aggagactac aagtaatgct tcttctacaa atctagcaac tactgcatta 300  
acatattttac acttccatgc agcccttcca aagttcatac agcagcgtat cgaccc 356

<210> 44994  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B6

<400> 44994

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cctaactacc gagctggtga ttatcaatgt cattcttacc aactatgatt accataagat 120  
caaattctta tcgacactgt cagaatcacc tgcaaacctt gataactcac tgcgcaacat 180  
acctaacttt cccacctaata ccaaagttac ctactatcca tgcttgctgc tgtatcatca 240  
acaattcaaa ctgtatctgc ttgagctcca aggtctcc 278

<210> 44995  
<211> 286  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B7

<400> 44995

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agccatcgcc tatttaccac gctggtggtt atcactctca ttcttaccac ctttcattac 120  
cataagacca aattcttata gacactgtca gaatcacctc caaacctga taactcactg 180  
cacaacatac ctaactttcc caccttatcc acagttacct accttccatc cttgcctctg 240  
catcatcaac aattcaaact ttaatcgctt gaactccaag atcacc 286

<210> 44996  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B8

<400> 44996

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ctttactatc atatcaggaa gataagttat cacattcctg cctatttgag aataaaggac 120  
attgtccttc attctactga aactatctcc agcattctct aaccctcac tcattaacat 180  
gcatcaatat tcgccattat caattattac gtctttctta tgcttattgc tcgctatcat 240  
ccatatctga tgat 254

<210> 44997

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-C10

<400> 44997

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gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180  
aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240  
tcgtcacctt ctccacggaa gaggcgatgc tgaacgcat cgacggcatg aacggcaaag 300  
aactggactg ccgcaacatc accgtc 326

<210> 44998

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-C5

<400> 44998

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gtaacgttcg tacgtccgtc cggatgaagga gcggtagggg ggcggagatg atcgaggtgg 120  
tgctcaacga ccgcctgggg aagaaggtgc gggatcaagt caacgaggac gacaccatcg 180  
gcgacctcaa gaagctgggt gcggcgacga cggggacgcg ccccgagaag atccgcatcc 240

agaagtggta caacatctac aaggaccaca tcacctcaa ggactacgag gtccacgacg 300  
gcattgggct cgagctctac tacaactgaa ccggcggccc tctcttctc tcgtcaggtt 360  
ggtctgaatt ctgaagtcatt tgggtgcaatt cgcttcgcgg tgatctctta agctcatcac 420  
at 422

<210> 44999  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A4

<400> 44999

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ccacctgtcg cgctcgcca agcgggtcac tctgcttggc cctgctatg gctcgccatc 120  
gtttttccca gctcgaatct tgcccgaccc aagctgaact tcatccatgg ccactatcta 180  
ttcttcttag acggactcaa ggcgcctaga ctccggtggc tttagcttga caccaactat 240  
tctagtcgtg cgtgctgatg tccgagctcg tcctaaatga actacattgg tgtccgtacc 300  
atgcccgtgc ttatccatgg t 321

<210> 45000  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G3

<400> 45000

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aagtgagcct tttttcatgt cttaaagggtg gagggagaca ctatgcaggt gtgaaacatg 180  
catcaacttg tatgcacaac gaggtattgc atatcttatt gacaaggagg attctattga 240  
ggaatacagag aagattgccca agcagaagag ggagatgaaa ctggagcagc agcaagggag 300  
ctagacaaat tttctgaatt cacttaatca t 331

<210> 45001

<211> 337  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-G4  
  
 <400> 45001  
  
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 acctctacat catctccgtc aaggcatca agggccgcct caaccgcctc cgtccgcct 180  
 gtgtcggcga catggtcatg gccaccgtaa agaagggaaa gcccgcctc aggaagaaag 240  
 tgatgcccgc cgtcatcgtc cgccagcgca agccgtggcg tcgcaaggac ggtgtctaca 300  
 tgtacttcca agataatgct ggagtgattg tgaatcc 337

<210> 45002  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-G5  
  
 <400> 45002  
  
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 gtcgttactt atttgtttgt cgtgtttgct tgggtctagaa gattgttgag gattgagata 180  
 actccacatg aagttattgg tttgtcaact ctatgccgta ggatgttttg catttccctt 240  
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 actggattcc agttcatcat atgtcactag 330

<210> 45003  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-G6  
  
 <400> 45003  
  
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ctggtagcat gggaatgttc taatgagttc tgctttgttt ttcaattatt atatagttaa 120  
tatttggtggt gatggatatg ttcacgcatt tgctgtttac agaaaagcag gtggttacac 180  
caacatataa tgaactgata gttgttgag atggtcattc aagtaccata tctgttcgtg 240  
catctggtaa cgaccttata agaccatttg atgttgctgt tgttgtagcc acttgagctt 300  
gacccctttt catggttcac atcaaatga ttat 334

<210> 45004  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G7

<400> 45004

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gcatcagaat atttgctcat cttcttgga ctattttaag gaatctttta ctaatgcttt 120  
tgttgtagtg tctattcttg ttattatttg agattactct gtgttgtagc tttaatgctc 180  
tgttctttgt gacatgtgtt aatctcactt tattattcat atatattatt cttcatct 238

<210> 45005  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G8

<400> 45005

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atgaggctga tgcagctgaa gctactgcgg agcttcgcgc attgatgttc atgggcctgc 180  
tggtgccgga tgggaggcac ctgcgcttcc acgacgagga tgccgactaa taagaatctc 240  
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<210> 45006  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G9

<400> 45006

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ccgctcttac cggggcctat cattcatctt ctaccgtcaa cacacgcatg tgcaccaagt 180  
acaacactac acaatgctgc aagttcgggtg atcagtgcc a tttcgctcat agcgaaagat 240  
agcttgctaa tccagactac atgtctcaag aaagacctcc tatgggtggg cgatatgcac 300  
gagctgaacc tatgcaacca gcttccatgg gcccttcagc aggaaacttt ggtgccatag 360  
agactgccaa gatcaatgtg gacccttttc tggccagtgg cataatcagc aatgatgggg 420  
tcaacactaa aca 433

<210> 45007

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H10

<400> 45007

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cggttgaaaa acacccggag atatatgtgc aaaatctaca ggagataaat cttatgcag 119

<210> 45008

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H11

<400> 45008

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ggttgaacta cccggtgatg gacgtgaaca acctggatgc tatcaagaat gctcaaactg 120  
ttaacgcaa gaaagctgtc cggcacacgc cgtcctgggg aactactac tactgtctca 180  
tcaacgacct tattcagcac ttacacaact aactgaaaac tgcttctgac atcggaatg 240  
ccactgtcaa aataactcac aagatagcta ccgccctata tgattctgac ccatcggtga 300

tacctgcccc gggctctcaa tgcgaaatga caagagactt gaccaagctt cggtagacacg 360  
gatg 364

<210> 45009  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H3

<400> 45009

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actgcccgtc caaagccttt ggtcaagctg gggcccgagg agaggtcagg ctggtctcgt 180  
caggaagatg aaatgcatat gaggttatca tgaggatgat tagatgcttt cgctctgtat 240  
agttcctagg ttcttgggtg gtacaagttg tagcttgcca tggtagcaga gtgcacgctt 300  
agatttttta catgt 315

<210> 45010  
<211> 55  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H4

<400> 45010

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<210> 45011  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H5

<400> 45011

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tggaccctgg tttcttgggt gcgacgcttg tagcagccgt gttatgatta ttagtcggga 180

aaatttgggg gctccccata tgagatgctg ccgggcaaga cctctacatc ccacctcggt 240  
tcaggcgggg gacgctggaa cgtggggccgg ttgtgttggg aagcccccta aactgttgtc 300  
gcttgcatth taaccttttc a 321

<210> 45012  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H6

<400> 45012

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tgagccgtat ggctgccaat ttcagttgta ccctgcttca gtctattatt atcctgcaag 120  
ctgggtgggtg gcctgggtggg cttctcccag atttaccctg cttcatgcta ttattatcct 180  
gcaagccggg cgggtggggtt tctcagatct atcgctcatg tagcaacttt caagcactcg 240  
tccattgatt cttttgttgt cttgtaggaa acatttggtc cgacagggtg agtagacact 300  
tttaaactga taaattcaat aacgtatggt ta 332

<210> 45013  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H7

<400> 45013

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gacgccagcg gagccggtag caaggggaag aagggtgcgg ccgggcgcaa ggcatgcggc 120  
cccaggaaga agtcggtgac gcggtccgtc aaggccgggc tgcagttccc cgtctgccgg 180  
atcgggcgct acctgaagaa gggccggtac gcgcagcgcg tgggcactgg cgtcccgctc 240  
tacctcgccg ccgtcctgga gtacctcgcc gccgaggttc tggagttggc agggaacgcg 300  
gcgaaagaca acaagaagac gcgcatca 328

<210> 45014  
<211> 65  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H9

<400> 45014

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa 60

aaggg 65

<210> 45015

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G2

<400> 45015

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ataggatggt aagggttttaa tgagttctgc tttgtttttc aattattata tagttaatat 120

ttgtagtgat ggatatgttc acgcatttgc tgtttacaga aaagcagggtg gttacaccaa 180

cagataatga actgatagtt gttggagatg gtcattcagg taccatatct tgcgtgcag 240

ctggtaacga ccttattaga ccatttgatg ttgctgttgt tgtaccact tgagctagac 300

ccctttccat ggtacacaac aaa 323

<210> 45016

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-A11

<400> 45016

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gcggccagtc ttcacatcat acatgagttc tcacggatca ttggtgagct ccctaaga 120

tgttattagt aaaaggaata catatagaag gtcattttcc atctagggtg aatgagcgtt 180

ctatatgttt gcatagtgtg ccatcacact tatcttctgg tgctctaaat tctgggaact 240

tgtagttca cgatcagctc aggattccct tggctccttg agggcaatgt aatgttagtt 300

gaacaacacc ttacgccga aagtttcagc ccacgcgtcc gctttgaccg ccgntccct 360

tccccctccgc tactgctcct cctcacccca ctcccccgca ggagcggcgg cgggcggcggc 420  
gaggtcgtac cccacatcgg cgagcggcgg c 451

<210> 45017  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A12

<400> 45017

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gagaatccaa catttggtt cttgatgcct gaccatcatc tccacagcta cttccgctac 120  
cttggtgatc atcctcaact gctgaaagat ggtgctgata ctggtggcac gaataaaggc 180  
aatactgaga gtgagcatgc ttcattctggc agggctatat cattgcttgg gaccacatat 240  
gactcatgag acgagaatga aggcacactc ccgcgtagtt cggaaggcat gaatcctgaa 300  
aatagcacga ctcttgatgt gcagggccat gtaaaatctg catcaattat gcctgtcaaa 360  
aaagaaatag gcaaaaatca gaatgctcct cctcctgcag ttaaaagaaa aacaatattg 420  
atgaagaaga atccgattct tactggcaat agcat 455

<210> 45018  
<211> 241  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A2

<400> 45018

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acgtcctgga ctgtaaaaac cctttcggtta cccatctaaa tcttcattca aatcatcctc 120  
ctttcgctat ctatcctaac accgaacacg cccacaccaa acgcccttca tatcattaac 180  
acaccctgct tcaactaatgc aacacgatcc ttaactgtgc attaaaccca ccaaataatt 240  
t 241

<210> 45019  
<211> 324

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-038-Q1-K1-E7  
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 gctgggggtg gtatgttcgt cctgagcgac gtgaatttct tgatcttgcc atgggggcct 180  
 gtgcccaggc gaaatggctg cttgtgatgg ggggtgtgaa gaagagctat ggcatttgta 240  
 ccataggaac agatttgaac gaactggact gttatatgta tcgctgttgg gatgtctggc 300  
 tgtgaaatat cactgctgca tcgt 324

<210> 45020  
 <211> 326  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-038-Q1-K1-E8  
 <400> 45020  
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 ggcggcaagg gcctgggcaa gggcggcgcg aagcgtcacc ggaagggtgct gcgcgacaac 120  
 atccagggga tcacgaagcc ggcgatccgg aggctggcgc ggcggggcgg cgtgaagcgc 180  
 atctcggggc tcattctacga ggagaccgcg ggcgtgctca agatcttcct ggagaacgctc 240  
 atccgcgacg ccgtcaccta caccgagcac gcgcgccgta agaccgtcac cgccatggac 300  
 gtcgtctacg cccttaagcg ccaggg 326

<210> 45021  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-038-Q1-K1-E9  
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 gcagtggaaat cagttgttgt acaacatgaa gatgggccta tttgtacaat ggtcatacat 120

gttctttgat catatactat aaacaatgta acctcatcgg ccgttatttg attgtttcaa 180  
aacaaaggaa aagccttttc aaaaaaata aatacttaat aatatactat agttacaaat 240  
tgtatactat acttaatcat aactatgtat aattcttgtg atttatatat ggattttctc 300  
gattt 305

<210> 45022  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F1

<400> 45022

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atggctaagc tcgctgtggc gctcctctc ctgctggccg tggcggcgctc cgcgtcggcc 120  
agcagcggga gccacctgga tctcgacctg ggcttctct cctctgggga ccgccggagg 180  
gagtgccgcy ggacggtggc cgagtgcctc gccgaggagt cggatgagga gggccttgac 240  
ctggccggat cccaccgtcg cgcgtctctac ggcgcggggt acatcagcta cggcgcgctg 300  
cggcgggaca acgtgccctg ctcccgccgg ggggcc 336

<210> 45023  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F10

<400> 45023

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catccatgtg ttaaatgaca tattcgagac atccttttct caataaactc tgcatcattt 180  
ggtgaaaaaa aaaaaaaaaa atattaatta atttaaaaat ataaaaaaaa ataatttatc 240  
ttattttctaa aaataattac aaaaatgaac catatttt 278

<210> 45024  
<211> 382

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-F11  
  
 <400> 45024  
  
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 aagaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaggggccc ccttttaaaa agccaaaatt taacatcccc gtatttgcaa 180  
 cttaaaatct ttttaaaagg gccccaaaat taaatttaat ggcccgtttt taaaaaactt 240  
 taaaattgaa aaacccttgg tttcccaaaa ttaaattccct ttaaaaaaaaa tccctttttc 300  
 caaatttggc taaatacaaa aaagccccaa acaaatcgct tttcaaaaaa tttgcccaacc 360  
 caaaatggaa aatgaaaccc cc 382

<210> 45025  
 <211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-F12  
  
 <400> 45025  
  
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 ggacatctcc cacaacctgg cgtgcatgct gagcttcttc tgcgagttac actccgagct 120  
 tcaatgccac atcggacttc ttcagatacc ggcatatcct gtctgaaatg gtttgaacag 180  
 ctttccgttg tgcaaacttg ttgtcccgaa atgacttggc acgtcctctg taacaagcaa 240  
 cgtcacctcg gatggacttc tcatttaatt cttttggtcc ctcttgcata aaataatatt 300  
 ttattgttgt gaataaaaaa acgttgcaat tacctatgaa aaaaaattaa aaaggtcata 360

<210> 45026  
 <211> 58  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-F2  
  
 <400> 45026  
  
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<210> 45027  
 <211> 339  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-F3  
  
 <400> 45027  
  
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 tggcgaccgt tccagttaac ccaaaacctt ttctgaacaa cctgacagga aagcctgtta 120  
 ttgtcaaact caagtggggg atggagtaca agggttatct tgcttctgtg gactcatata 180  
 tgaatctcca gcttgccaac actgaggagt acattgatgg tcaattctct ggaaacctgg 240  
 gagagattct gatcaagtgc aacaacgtca tgtatctccg aggcgttcca gaggatgcag 300  
 agatagagga tgcacagtga gaagatgcga tcaatgttt 339

<210> 45028  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-F4  
  
 <400> 45028  
  
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 ctgcagaacc ggcaggggaa gactcgactg gccaaagtatt acgtcccgcg cgaggactcg 120  
 gaaaagcaca aggttgaata cgaggtacac cggctcgtgg tcaatcgga ccctaagttc 180  
 accaacttcg tcgagtttcg cacacacaaa gttatctaca ggagatatgc tggactgttt 240  
 ttttcaatat gtgtggacat aactgataat gaattggcat acttggaatg cattcacttg 300  
 tttgtcgaga tattggacca tttcttttagc a 331

<210> 45029  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-F5  
  
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 gtatgggtcca cgaagagctc gagagcgagg attttatatt cctcaciaaac cttgatgggt 120  
 tgtgagtggc tgcttaaaca agcatctggc taacagccta acacatcaaa agggtgacca 180  
 ggccagcgtt ggtgaccctg cagtgatgtt ttttctctgg gctgcaaagt agaagatgac 240  
 ctgtaaaagt tgtaattctac gatagattta aaattctgag ctttgctgtc tcgtaatact 300  
 ataatactct at 312

<210> 45030  
 <211> 215  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F6

<400> 45030

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 gtaccgctag ctccggctct ggggtcaatat gatgcatggg ttgttaggct tagatgtttg 120  
 acttgggtata cgctaccta ttatacgtga cgtgtgtctt gtaaatacaag ctagctccgt 180  
 aatccgtatg ctaccttagc ttctttcgtt tcac 215

<210> 45031  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F7

<400> 45031

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 gcgctttag aaagagcagg ataacagggc aagacttttt ggtagttcaa gcggttctga 120  
 cagcagttcg cagctaccac ctaacaggac ttacctacg agcggctcgt ctcgcaacat 180  
 gtgaaggcat gtcggtattg accgaatatg gctttgatga tccttacttg gattaggact 240  
 ggtgactggg aaggaacctc tcattgttct gcagaacatg gcatcagatg aagagcc 297

<210> 45032  
 <211> 344

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ctagctaata tatgtagtga tggatatgct cacgcattcg ctgattacac aaaagcaggt 180  
 ggttacacca tcccataatg aactgatagc tgtaggagat ggtcattcac gtaccatata 240  
 tgatcctgca gctggtaact accttatcag accatttgat gaagctgnag atgaaccac 300  
 ttgagctaga cccctttcca tgggtgcacat caaattgatt atat 344

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-F9  
  
 <400> 45033  
  
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 aaaaaaaaaa aaaaaataaa atagtgaac aaaaaaaaaa tccaaatggc taataattac 180  
 aaaaacgtca acaattagaa aaccaatgga aatacctaaa tt 222

<210> 45034  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-G1  
  
 <400> 45034  
  
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 actagtatct ctgttggttac ttatgttcta ggtaaactgc gcagccagag cagagctgaa 180



gaatatgtac tgcttgctcg ctcttggtg gttgtgtcta cccctactag catttcagct 240  
 ttgttgtagg taaactgcga acccagagtt gcagaacccg tactgctcgt ttaagttcat 300  
 ggtgaactac gagctaaaag 320

<210> 45035  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G10

<400> 45035

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 gatgcttgcg ctcgcaaagt gatcacagag tatgcccagc aaaccggagg aggcagtttc 120  
 agctcgagct atggttgctg ggaaagctgc gtaggcgctt gttaattgct tatattgtat 180  
 ctattattat tattataagt atttatgtgt cgagtaaaat agaaaaaaaa acagtgtgtc 240  
 tgctgtatac tccatccttt tgctattggg tcaatgttgg cttgataaat atggtcgtgt 300  
 acagtacagt gtatgcgtca gtccggttag tatcatgtat gctttgcctc tatttacaga 360  
 acttggtttt ataacttttt ttcgtcacct tttatatcta aatatttttt aat 413

<210> 45036  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-038-Q1-K1-G11

<400> 45036

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 atttcaccag atcttctttc tcatgcctca ggcaacagca atcatgtcga ggcgttgaga 180  
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 gtgattacgg tcgactgcat cgaagggttat ccactaatca gggttacagct aggaaagcat 300  
 gtttttctaa gtgcagggga tttttatctg gctagtcgat cctaattttt gtgtgcagca 360  
 tcccaatttt gactgattca cccatcattt tgccgcaatc ggcttanaca gcttggttcc 420

atztatgcat tc

432

<210> 45037  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G12

<400> 45037

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ctccaagcac ggatcaggag cactgaaatt ctatctcaac cggttctgcc gactgggtaa 180  
cttgaattct aaagatgggt gtgaaggaaa tgaatcttca atattacaat agttacatcc 240  
agtacctacg aagaataagg gttgatccaa gcacgaagtg aatgcgtgat ggaatggcat 300  
tctgcatttc ttctaagttg atgcatgaca gatcatggag aatgctggtg gttgtgatag 360  
ctatcacaca ctcttttggc caataattag atactctttt tgttcagcaa tgt 413

<210> 45038  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E6

<400> 45038

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aaagtgcga accctctatt cgagaagagg ccgaagcagt tcggcatcgg cggcgcgttg 180  
ccgccaaga aggacctgca ccggttcgtc aagtggccca aggtcgtgcg tatccagcgg 240  
cagcgccgca tcctcaagca gcgcctcaag gtaccaccgg cgctcaacca gttcaccgcg 300  
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<210> 45039  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C8

<400> 45039

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ctacgaaaaa cagtggatgc aagtccgctt tcccccatgt ctgccaccat tttgattgtg 180  
aactcatttt tacaatggct ctatcatcct gggttcagta gttgtcattt tcattgctgg 240  
gtgcgtcagt tcattatttc gatggcaaac agccaactag gcaagctact ggatttgtgc 300  
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<210> 45040

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C9

<400> 45040

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ctagcctttt atgctgc 137

<210> 45041

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D1

<400> 45041

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gatatatggg tggagatcaa ataatggcct tgcaataata tgatcaaaga ctcgctctgt 120  
tgatgataat aacatcatat atattgagga tcttttcaaa ctgctgaacg agactgctct 180  
cctgaccttc ggcttcaatc tggatgacct caacaccttc ggaaaccgga tccaacgggt 240  
gctcaaactc ggggttccca tctttcaaga ccagcct 277

<210> 45042  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D10

<400> 45042

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gctcagaaga ggaccaatat gagaaaccta catgggtggca acagcctcag aaacttgtgc 180  
atcttatgga ggagctctgc aggggaaact ggcgttccca tgcccaggag tcgtagttga 240  
tggtgtacca tcacgcccct ctttatttac tttagcccat tgcagaatgc aaaatacgaa 300  
cgtgggctgg tgcagaggag taaggtcacc tggaccagtg gactctttag ggctctttat 360  
cgggtatttg tctctgggtt cttaaaagta tgtagagagt gaatgaattc ccggcatttt 420  
tgcaaatg 428

<210> 45043  
<211> 216  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D11

<400> 45043

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cgttatcctc atatgctgag tgtctgcagg agtatgttaa tcatcatcct ggtgttatta 180  
tcgtaccttg ctaccagtga aaaaaaaaaa ttaaatt 216

<210> 45044  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D12

<400> 45044

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 gtttctcggg tcttgctggt gcctgctggt actaatagta tactgcgtat aggttggtggg 180  
 agtggccggg gatctgatct ctgtgctggt tgcattatgt gagtagtttt atcgtacctg 240  
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<210> 45045  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D3

<400> 45045

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 tctgcagcag ggggtgtccat ggacgagtcc tttgggctga cgcttcgccg gaaggagaag 180  
 cttctccttg ttccaaggat tgcttcctga taatcctaca tctgtaaaac ttgtgtcttg 240  
 ctagctgtac cggaacaag attaaataat gcaaggaata aagtgactct gttcttcgtc 300  
 agtaactata tattgtagga gtcctgatga tgaataa 337

<210> 45046  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D4

<400> 45046

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 gaactccttc attaacgata tcttcgagaa gctcgctgct gaggcgcgca agctcgcgcg 120  
 ctataacaag aagcctacca tcacctcccg tgagatccag acctccgtgc gcctcgtcct 180  
 tcccggggag ctgcgaagc acgccgtctc cgagggcacc aaggccgtca ccaagttcac 240  
 ctcggcctag gctgc 255

<210> 45047  
 <211> 298

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D5

<400> 45047

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 ggcggaagg ctccgcgga gacagctggcc accaaggcgg cgcgcaagtc ggccccggcc 120  
 acgggcggcg tgaagaagcc gcaccgcttc cgccccggca cgtcgcgct ccgcgagatc 180  
 cgcaagtacc agaagagcac ggagctgctc atccgcaagc tccccctcca gcgcctcgtc 240  
 cgtgagatcg cgcaagactt caagacggac ctgcggttcc agtcctcggc cgtggcgg 298

<210> 45048  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D6

<400> 45048

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 cgacactgta cgtcctggag aagctttcgc ggctccacat ctccaaggaa gaagagtcca 120  
 ccatcttgag gttctccggg gaccccgaca ggctcgcccc caccgaggcc ttcctactac 180  
 gcctcctcct cgacgtgccc aatccgatcg cgcgcgtcaa tgcgctgctt ttcaaggtga 240  
 actacggtgc ggatgtcgcg cagctcaagc actcgcttct gacgttgga ttagctagcc 300  
 a 301

<210> 45049  
 <211> 201  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D7

<400> 45049

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 cacagcaaga tctgaactga agcttcttcc ttccttctt ccttgggttt cctttcctac 120  
 ctcgaaaact actgctctcg agtgaattga actggctgta attactaatt actggggaaa 180

aacacggttt aggttgctgt g

201

<210> 45050  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D8

<400> 45050

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gtatttgtac tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa 120  
aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaaataaaa 180  
aaaaaaaaaa tgggagacta ctataaagga ccaaacctat taaccacggt aatgaaatgt 240  
aaaagacatt taaaagggtg ctcaaatga aattaactgg cacaagttt 289

<210> 45051  
<211> 334  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-038-Q1-K1-E1

<400> 45051

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tgtcaaagag aaaacttggt ctggggactg ttactgaac ttagcagatt atgcatctgc 120  
tagataatcc taccattgtc tgtgcctagc agtgcaacag acctgggtccc atcactccat 180  
gtatgcctct tatcaaatat atggctccat gtattgggct atcaagattt attttggctt 240  
gtggttcttg ttagataact acattatgtg acatttagtg ttatnttctc tttccagctt 300  
actttaagcc tggcagaagt aagagtatct caac 334

<210> 45052  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E10

<400> 45052

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cgtgacgata ctataccttt gcgttgtatg ttaataatct gctaacgact gcaattctag 120

agattcattt accgtaaaat tgtgaccgct gtagatgact ctcgatttaa cactgagacc 180

attcatatga aacagtgtct cctctctttt tggactacaa aattttggca catagcaggt 240

gtacaagggt aaacctttta aaactttcat ctatgggggtt cgtgatagag tagccatgtt 300

tacgggctcg tcttgatcac ttgtgctact gcaacatttg gtctt 345

<210> 45053

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E11

<400> 45053

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tgcgacgaac ctgattgtgg agaccgccct aaaggtgata gagtgcgaac agatgttcct 120

ccaaatgtgc atgatgtcag tcttccgggg ctctgcgaag ctcatcgaca aacatagggc 180

gctgtttttg cagcactact taccatggtc aacacaagct ggtctcacgt gtactgatct 240

gatgtctgta tattacgata agcactttca cgaagacctg catgaagaga gaaggaactg 300

atgaatcctt tcttgcccta gtcccaaaaa gagcactgta tatgacggca ttgtctgcgt 360

gaactatcta tct 373

<210> 45054

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E12

<400> 45054

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gggtccaaca cagcagtacc cggaaggctc cgattttgac gatatacagc gcgaccggga 120

gtgcgtcatg tgcttgagcg aggagatgtc cgtggtgttc ctcccctgcg cccaccaggt 180



cgtctgtgcc aaatgcagcg acctccatga gaagcaaggt atgaaggaat gcccttcgtg 240  
 ccgggcctcc atccagcgca ggggtgcgcgc ccggccagac ggttgctaga tttcacatat 300  
 accatttggg ttttactttt cttcttttctt tcaccttgat tgctcagctt aagttgatgg 360  
 aagattggag ggaataatca tgtggtgtga gtggttgaaa ctgtgacaat aatacatcgt 420  
 ttaacaccta acaagcccc 439

<210> 45055  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E2

<400> 45055

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 cggagcggat gtattcgtcg tcgacgacgg cgtcgttcat cccagcagcg cggcagcagc 120  
 tcttcagctt gccgccattg caccgcgaga gctccccgcc gtccctcggag acgacgccgc 180  
 cgtcggctcg tagctcgggtg actactacat cttttcagcg tgctaacgac ggcgacgagc 240  
 tgtggcggac aggcacaggg tacggctccg ggggtgtccgt ggcgcagtcg acgtcaacgc 300  
 caccatcagt gccttcgacg gtcgtttcgg atcag 335

<210> 45056  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E3

<400> 45056

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 cttctatggc agtttccttt ggacagcgag ctgcacatcg ggcttccacc agggattcat 180  
 ctgcagctcg tcgaacagtc acccgtgatg gtcacgaag ttcatactga ccattctgcc 240  
 gtagtggaag ccgtgagggg cctgatcatg accgctctga ccgggaactg gatcattct 299

<210> 45057

<211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-E4  
  
 <400> 45057  
  
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 gcccttggtg gatggttgaa ctgtctaact tgtctgcaat ccatgaagtt ggacatgacg 120  
 gtcttcatac agtacttgag atgacagatg cattccctat gcaacgaagt actcttgacg 180  
 ttccccatca atttaagcat cttgggcttt atattggatg cagttggctt gaagtaaatt 240  
 taatctttgt tgcaggcctt cgatgaggcg atctctgagc tagacagcct gagagaggag 300  
 tcctacaagg acagcactct gatcatgcaa c 331

<210> 45058  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-C7  
  
 <400> 45058  
  
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 atggagatca acccagagaa ccctatcatg gatgagctcc gcaagcgtgc cgaggctgac 120  
 aagaatgaca agtcagtcaa ggatctcgtg atgctgctgt tcgagactgc tctcctgacc 180  
 tccggcttca gcctggatga ccccaacacc ttcggcaacc ggatccaccg catgctcaaa 240  
 ctcggtctga gcatcgatga ggacgagcct gttgaggcag aggctgagat gcctcagctt 300  
 gaggacgacg ctggtgaaag caagatgg 328

<210> 45059  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-E5  
  
 <400> 45059  
  
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gtaagagatg tttctctgcg cggcaagttg gttgtgtacg acaatcaacg gaagcagatt 120  
 ggatgggcag attcagactg caccaaact caatcacaaa agggctttcc tttcttcctc 180  
 tgacgaagca tcaactcgcta cataatacat gtgtaaagcg taaatagtga acgccattgt 240  
 attgtagaat acattattaa gtggagactg cctttgtgta tgggtatatc gttccattgg 300  
 aactgtcaga aatccttcac tgtgtgttac c 331

<210> 45060  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A6

<400> 45060

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 cacaaaagag aacactgaag caagagcttc aacatgttcc accttccaag agcttcaaca 180  
 tgttctgctc cgggtggctca agaggcaagc gtcgcacccg ccccgatttt gattccaagg 240  
 acgaatacaa cattccccgc ggactagcga tcaccgtacc ttctgtgcct cgaggtggag 300  
 ccgcccgtct gcgactcgcg c 321

<210> 45061  
 <211> 329  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A7

<400> 45061

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 aagatcttgc ggagaagtat cctgatatga ttatcaaggt tcctgttgat gtatttaaag 180  
 gaataacaga cgaggatgca gctaaagttg ttgatggctc agctctaaag tcagcggata 240  
 ggagtccttc tatagaacag attaagaaac tgtatgaact tttctgcaag tctgattgca 300  
 cattgctgga gataaatcct ctggcgag 329

<210> 45062  
<211> 294  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A8

<400> 45062

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gccgtcttgg aaatgcactt actacgatta cgtcaccact atctcttcgc atttgaatca 120  
tgtacaatgt caaagagaaa ccttgctctc aggactgttc actgaactta gcatattatg 180  
catttgctta atcatcctac cattgtatgt gcctagcaag ccccatacc tgggtccata 240  
cactccatct tactttaagc ctgtcagaag tcacagtatc tcaacatgaa cctg 294

<210> 45063  
<211> 208  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A9

<400> 45063

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ccggatgggg ttgaaaatga agaacggcga caaatcaac ccactcctta acaaaaccga 120  
aggcatcggt cttagaacaa cttaaacct tcgtttggtt ttcggtcttc cttattataa 180  
accaaattga aaaaatcttt ttaaagga 208

<210> 45064  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B10

<400> 45064

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gatggccaag tcgaagaacc acacggcgca taaccaatcg ttcaaggcgc acaagaacgg 120  
catcaagaag cccaagcgcc accgccagac cttaccaag gggatggacc cgaagtttct 180

gaggaacttg aggtactcaa ggaagggcaa caagaagagt ggcgaggctg agtccgagga 240  
gtaagatgat ggtgattgag tttgtggcga caaatgcatc tcttgatcgc ctaagagtct 300  
tagctgtgaa cttagttctc acttctgtgt gactgtgatc aaaggagatc catcagttgg 360  
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atccttttga gaattg 436

<210> 45065  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B12

<400> 45065

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaac aaaaaaaaaa aaaaacaaaa 180  
agaaaaataa aaacgagata tacaaaaaaa aaaaaaaaca aaaaaaataa aataagaaaa 240  
aaaaaaaaaa aaaaaagaaa ggaaaaaaaa aaaaaaaaac aaaaaaaaca aataaaaaaa 300  
gagacacaag aaaaaaaaag aggaatgaac 330

<210> 45066  
<211> 242  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B2

<400> 45066

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ttcaaggatg ggaaaccttg ttatcgcttt gagggagcat tacctgttga ccagatgatc 180  
gaacagattg aaaatgcttt ggcagtcaca aagtagcaca tatggtgatg agcagggcag 240  
aa 242

<210> 45067

<211> 308  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B3

<400> 45067

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gatttttttt ttatgtacct gtatgccttt tatactcttg tacataaact actagtttta 180  
gttcgtttat actgtccatt ctgtattttt gatgtatcat ctctcaactc tgccactgct 240  
acaccaactt atttcatgta taagtgtact aatacatggt catcatcatg atacattcct 300  
tatattct 308

<210> 45068  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B4

<400> 45068

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ctggccagga ggggcggcgt caagcgcatt tctgggctca tctacgagga gaccgcggc 180  
gtgctcaaga tctttctcga gaacgtcatc cgcgacgcg tcacctacac cgagcacgcc 240  
cgccgcaaga ccgtcacctg catggatgtc tgctacgcgc tcaagcgcca tggccgcacg 300  
ctctacggc 309

<210> 45069  
<211> 314  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-038-Q1-K1-B5

<400> 45069

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gcctttttaga ctcttggtaca taagcttcta gtttttagtgc gtttatacgg cccatcctgt 180  
agttttgatg tagcagctct cagctctgcc actgctacac caacttatgg catgtataag 240  
tgtactaata catgggtcatc agcatgatac attcttttaga tgcttggtca atntttttaga 300  
tgcttggtgg tggc 314

<210> 45070  
<211> 74  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B7

<400> 45070  
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<210> 45071  
<211> 326  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B8

<400> 45071  
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ttaccatgtt cttgacgagt ctacaaacta cagcagtgc ctgagaccaa ctgccaagca 180  
actctggaag ccgtctattg gtttgcttga acttggtgtc cttggtgctc aagggttgt 240  
tcccatgaaa actcgagatg gaaaagggtc atcagacacc tattgtgttg ctaagtatgg 300  
gtcgaaatgg gtaaggacac ggacca 326

<210> 45072  
<211> 272  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C1

<400> 45072

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ggtcacatg catatggtta cagtcaagat gtacgtggac atgaaactga acactcaaag 180

cggcatgagc acgaatatta tcgagttgac tcgtatggta aaatggaagc ctacaatcag 240

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<210> 45073

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C10

<400> 45073

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aaggaaaaaa aaaaaaaaaa aaaaggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg 180

gggtacatta aaaaagacca aagtacacgt acatgcaacg taaaagctaa actatagaga 240

aaggaaaact aaattaaata caaaggacag cacaacaaaa aagactggaa aagaaaaaac 300

ctggcgtaac caaatgcaaa ttgattagaa taaaactccc tataccaaac tgggaataaa 360

ataaaaaagc accaaacgaa gaccaacaa aaaaatcagc cagactgaaa aggaaaaggg 420

acccccatt 430

<210> 45074

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C2

<400> 45074

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gaatcgacca ataaaagtca gaatccagtg ccaagttcat caacatctaa tggcaaggag 180



gttgacgagc ctgacaacca tgatatcgat gatgacgatg acttatacat tgatgaattg 240  
aatgaacttg aagcaagcct gtcgagaact tccatccaaa ttcgagagcc tggctagggg 300  
acatcatctt gatc 314

<210> 45075  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C3

<400> 45075

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gaggagctgc tccgcgccgg cgccagggtc gacgtcaagg acgtcgacgg cgggacggcg 120  
ctcgaccggg ccaccgacga gaccagagag ttcattctcg gcttcgccgc caagaaggcc 180  
tgaacgacca tgtgcaggtc aatcgtgccc ggttcttctg gacatttggc tgcattgtaac 240  
taaattcttc gttttctgga attggtggag tgttcaaccg ggggtgaaca agctgtttgc 300  
agaggtagct ttccgtagtc agctgtattc ttactga 337

<210> 45076  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C4

<400> 45076

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gctcgccagc gaccatgggg aaccgggaga agctgatgaa tcagatcttc gacctcaagt 180  
tcacctccaa gtcgctgcag cggcaggcgc gcaagtgcga gaaggaggag aacgagcaga 240  
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agaacgccat tcgcaagcgc aacgagcaca tgaact 336

<210> 45077  
<211> 286

<212> DNA  
 <213> Zea mays  
  
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 aatgataatt tcttaccagg acatttttct gaacgccccca' taatgcctgg ggtccatattg 180  
 gtctatgcta tggcccaggt tgcgggtctg gtgatgactc aacctgatat tgggtggatct 240  
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 <213> Zea mays  
  
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 taaacaaacc agttcttgag gcatttggca atgcaaaaac tatcaggaac aattcaagtc 180  
 gttttggaat tttttgttga gattcagttt gatgcaaatg ggaagatatc aggagctgct 240  
 ataagggcct atcttgttga aagatcccggt gtctgtcaaa tatctgatcc agaaagaaac 300  
 taccactgct tttgcatgct ctgttctgc 329

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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-A4  
  
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 tggcattaac aagaaaagac tatatcagta ctccaagtac gcatcaagca tcgctgctct 180

atcattcagt aaggatgggc atctgcttgc tgtggcatcc agctacactt atgaagaggg 240  
 agaaagaacg catgaacctg acgctatatt tatccggaca gtgaatgaag tcgaagtga 300  
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<210> 45080

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G11

<400> 45080

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 ggccctcgtc agcgctccg ccaagctctg acgtccgtgc tcggctctcc agtagtagcc 180  
 tacgagaaag gctgcaattt tgacggccat tttatgctag ctgttggtgtg gaataaagat 240  
 caaatgctgg aacacttata actcgcgca gactggactc agatccatgg gctgtatttt 300  
 agatgtagaa gggggcaa at ttgcaccgta ctaccatggc atggctatat gcggaactgt 360  
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<210> 45081

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G3

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 tgcgatatga cgaaactcac taggaactca ggacttgctg acacatatag acccaggtat 120  
 catactcact tgcgtatacg aatcaagaac attgaagcat ctgagcattc caagtacttt 180

<210> 45082

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G4

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tacagggttc gagccaaatt cgcatacgaa gctccttaat gatatagcca aatctaccaa 120

gacttaccaa aaggtggaaa cttccacttt aaatgaggtt acacttaatt gatattgcaa 180

taatattcag acaatgcttc atgtctatca tgtacaggaa cctaaaagtc atgaaagtgt 240

gcaaatccca tattctgaag aaatattat 269

<210> 45083

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G5

<400> 45083

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cccgcgccgc ggtggcacgc ggcaactgtc gccgcggcgg ggctgtacct ggccctacgtc 180

gcagccggcg cctgcgtggc cttcacgcgg tccgaggcgt tccggtgggt cgtggcgctg 240

gcgcctgggt cctacaccgc tacgctcggc tttatcatgc tcgccatggg ccttacgctc 300

caacttaggg acttcgacgc cctactacgc gacaggcccc tcgacatttt gatccggtgt 360

gccgaccaat acagcataat gcctggtgtt ggcgctatca ttagccacgc gctggggcctt 420

tccccgttgc 430

<210> 45084

<211> 434

<212> DNA

<213> Zea mays

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<400> 45084

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ccaagatgac gaagcgcact aagaaggcag gaattgttgg caaatatgga accagggtatg 120

gtgctagctt gcgtaagcaa atcaagaaga tggaggatc tcagcattcc aagtactttt 180

gcgagttctg tgggaagttt gctgtgaaga ggaaagcagt tggaatttgg ggggtgcaagg 240  
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 tcaggagcac gatccgtcgc ctgagggagc agactgaagc atgatatagc tctttatatt 360  
 attggggttt cctgtagttg ctcttgtcag gcatgtttgt gggggcctta tctagtggaa 420  
 atgtggaatc actg 434

<210> 45085  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G7

<400> 45085

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 tcaaaaaata agaagaaagc aaaacttgta cagagtgggtg gtgatgtctt gacgaattgc 180  
 aaattagctg tgcgtagtcg gctggggcag ggtaaacaaa gtggctttgt ttatggtcct 240  
 ttccaccctt ctggcgcaag gaaacatgga cttgatggcg gcaataagcc tgggcaaagg 300  
 gagagggctg aggactggga gagcctttct gcttcatttc gaccacagta ccagaaccaa 360  
 gcactcagtg atctatttgt ccattatgtc gacgcgtgga agacatggta ttctgaat 418

<210> 45086  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G8

<400> 45086

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 accaaaaggt ggaaacttcc actgtagatg tggttacaca aaatggaaag ggcaataata 180  
 ttcagacaag gctccatggc gatcaggtag aggatcctaa aagtcatgaa agtgtgcaga 240  
 tcccagattc tgaagaatta ttagcaactg ataatagtaa aggttgcaat ttagctaaac 300

tcaacaatgt ccttgaagag tcagtccaag aggaaacaat agctaagttt cgttctgatt 360  
 tgcaaccaaa gcccaggaag gcttcatccc atgttgctgt gattaaaatt aatgggtgctg 420  
 cttgtgctcc aatagttgga gtttgtgaca gcc 453

<210> 45087  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G9

<400> 45087

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 gctcgacgag gacgacatcg cgctcctcaa gacctatggg cttggggcgt actctactag 180  
 cattaagaag gtcgagaagg agatcaagga aatggccaag aaaatcaatg acctttgggg 240  
 tataaaagag tctgatacag ggttggctcc acctagccag tgggatttgg tttcagataa 300  
 acagatgatg caagaagaac aaccgttaca agtggcaagg tgtacaaaga tcataagctc 360  
 taatacggat gatgctaaat atgttataaa tgtaaaacaa attgcaaagt ttgttggttg 420  
 act 423

<210> 45088  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-H1

<400> 45088

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 aaaaaataag aagaaagcaa aacttgtaca gagtgggtggg gatttcttga cgaatttcaa 180  
 attatctgag cgtagtctgc ttttgcattg gtaacaaaat ggcttctgat atggtccttt 240  
 tcacccttat ttcgcaagga aac 263

<210> 45089  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-037-Q1-K1-H12  
  
 <400> 45089  
  
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 ctttaagtcc aacgagtatg ttacggagac cttatactgg cagtactact actggtatct 180  
 caccaacgat ggcattgatc acctactcaa ctacctgaac cttccgtctg agatcgtgcc 240  
 tgccacgctc aacaagtctg tca 263

<210> 45090  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-037-Q1-K1-H2  
  
 <400> 45090  
  
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 tacaagattc cagccaaatt ctcatacgaa acttcttatt taaatagcca aatctcgtat 120  
 gactaaccaa aaagttgtaa cttccactgt atattttgtt acacaaaatt taaatgtcaa 180  
 taatatttat acaaagctcc atttctatca ttacatcat cctaaaattc attataatgt 240  
 tcatatccca tattcttaata aattattatc a 271

<210> 45091  
 <211> 279  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-037-Q1-K1-H3  
  
 <400> 45091  
  
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 gtgagaagtg gatcttcccc tggatctaata ttactggga aacttgatga taatcacaac 120  
 atagtgcacat ctgcagctgc atcaggggca caggatcagg cagaaaccga ccacatggct 180

agcggatgct acagatcagc agaaactacg gcgaatttta caaataatgc tatgtctcag 240  
tcccaacctc aatggaccgg tccgtcccct gtggatgac 279

<210> 45092  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-H5

<400> 45092

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atgaagccgg tgggtgcatcc tattaacagc agcatgccag gctttggtgg catgatgaga 180  
accatgcgat gccagggcct tcaacaatca atattctcag gcagccgaaa gtgacaccat 240  
cagtcttgac cttggtgtag gtatcagccc taaccacagc gatgcaacaa accagatgca 300  
ggcctcagtt ccagaacctg tgcagtatca gatgagacac atgggtcctg tgtacggaag 360  
catgggactt ccaggaatgc ctgtgccagc aatacctggc agaatgtacg gttccagaga 420  
ataaaaagga a 431

<210> 45093  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-H8

<400> 45093

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gctacagcgg acaaggaata ttgacaacct gactggccaa tatgtcttct tcttgggtgc 180  
ctaccgtgtg ctttatatcc ttaactggat ttaccgatac ttactgagc cccattttgt 240  
ccactggata agttggatgg caggaatagt gcaaactctg ttgtatgctg acttcttctt 300  
ttattacata atgagctgga agaacaatgt gaagctagag ctgccagctt aagggtgctg 360  
ctcctgtccc caagatatag tagggtaata tatcagatag gcaggcccca tacacagcat 420



gatcatt

427

<210> 45094  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-H9

<400> 45094

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gcggcctcgc ctggggccacg gacgaccact acctccacaa cgccttcagc acctacggcg 180  
aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240  
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300  
agctggacgg ccgcaacatc accgtcaacg agggccagtc ccgcggcggc cgtggaggcg 360  
gcggcggctg cgggtacagt ggtggccgtg ga 392

<210> 45095  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A10

<400> 45095

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aagaagagtt gcttaacgct gctgtgcgtc gtgtggatgc attggaagct gaactaattg 180  
taacaaagaa ggctttgcac gatgctctta tcaggcaaga tgaactgctc gcgaacatcg 240  
acagcaagga gattgccagg gctcagagaa agaagaaaac aatgttctgc tactaggaca 300  
acacctgctt ccgtgaggag atgacaaacg cggcggaccc attcatttta ctgacacttg 360  
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tt 422

<210> 45096  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A12

<400> 45096

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ctggccacga agggggctcg caagtctgcc ccggctaccg gcggagtga gaagccccac  180
cgtttccgcc ccggcacctg cgcgctccgg gagatccgca agtaccagaa gagcacggag  240
ctgctgatcc gcaagctgcc gttccagcgc ctggtgcgtg agatcgccca ggatttcaag  300
accgaccttc gttccagag ctccgccgtc gccgcgctgc aagaggcgtc cgaggcctac  360
cttgtcgggc ttttcgagga cac                                           383
  
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<210> 45097  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G10

<400> 45097

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aagaagacac gacgccatca gctaaagctt ctcccctgcg gactgggtcg gaggatcctg  180
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cccataaaca cggtgctaata accagctatg aaagaaaaac cggcacggag agatcgctc  300
tgcattctca ccaccaagca aggtcgttaa acagaggagg tgtttcgtct ctttcattggg  360
aacgcacggg ttcgtcagaa ggaaaccgtg gagctgcgcc caccacacct gggaggctcgt  420
ccaagatg                                           428
  
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 <211> 260  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D9

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ttataccatg aatcacttgt ttgaaagaga cttcatcacg taatcacatc ataacgtaat 180  
ttaactttac caaaatattt atgacaatca tcctaaactt agaccctaga cataatatcc 240  
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<210> 45099

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E12

<400> 45099

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ctatgtcaag acatggttca accagcccgc ccgcaagcag aggcgcgcga tcgcacgtca 180  
aaagaaggct gtgaagatat tcccacgacc aactgctggc cctcttcgtc ccattgttca 240  
atgccagact ctcaagtaca acatgaagtc aagggtctggg agaggcttta cccttgagga 300  
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<210> 45100

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E2

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ctgccatctg cggctccctc cgcaaggcct ccttcaaccg cggcctcctc cgcgccgccg 180

cgagggtgtg cgaggactcc atccccggggc tccgcatcga cgagctcgac atctccgacc 240  
 tgcccatcat caacaccgac ctcgagaccg gcagcggcag cggcaccgtc tccccgccc 300  
 ccgtcgaggc cttccgcgcc aaagtctggc aggccgactg cttccttctt cgcgcgccc 360  
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<210> 45101  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E3

<400> 45101

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 aggcggagcc gacaacggtg tgagccccgg caacgtcccg gtgtgctact acggcgcggc 180  
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 caccttcttc tccgtggaga aggcggccc gttcacccgac atgcaagcgc tcgtattcct 360  
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<210> 45102  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-037-Q1-K1-E5

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 tgtgggcacc tagtcaagtc cgatggggtc atcacctctt gcctcgattg cttcttagat 180  
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<210> 45103  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E7

<400> 45103

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 acatattatg cgacaacaca tgtccatgcc tggaagattt cctccagaag gcttgccaag 180  
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<210> 45104  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E8

<400> 45104

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 caatgctact acaacagaag atgccattgc acagttgcgc tctagaaggc tcatgagtag 180  
 aatggaggtc ccatctggtg ccaccaccga agacaggact gatcgaactg agggtttcga 240  
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 cggaaggctg ctgactccaa cctctgatga tggcgagtat gtggagtact catttgatag 360  
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 tgaatcactg aaagacta 438

<210> 45105  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E9

<400> 45105

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caaagcgcca ccgtaagggtg ctccgtgaca acatccaggg catcaccaag cccgcatcc 180  
gtaggctggc tcggatgggc ggcgtgaagc gcatttcagg gcttatctac gaggagaccc 240  
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acgcacgccg taagactg 318

<210> 45106  
<211> 283  
<212> DNA  
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<223> unsure at all n locations  
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<400> 45106

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caagggatgt gagctgancg tcaatcagag ncgcttgagg cttatctctg angaaaacgg 120  
ngatgaagat gaatctacaa agctgaangt ggaagatgtg cagttatcaa tggatgatct 180  
tgagatgatt caagtcattg gcaaaggaaa cgggtggtgt gtccagctag tgaggcacia 240  
atgggtgggc acattatttg ccttaaaggg tattcaaatg aac 283

<210> 45107  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-037-Q1-K1-F10

<400> 45107

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gatctcagct actacagggc ctactgctgc tacaggcaaa acaaactgca tgaggctctt 180  
gagcttttaa gaggccaaga agaaacttca gctgttctcc agctggaatc ccagatcttt 240  
taccgactag gaagaatgaa tgattgcatg agtagctatg agaagcttaa aaaaatttaa 300  
aattgactca atggatctga agataaatat cattgctgct ctagttgctg ctggaagggc 360  
ttctgaggtg caggcagcta tgaaggcgct taagggtgat cttaccacga gagcactcag 420  
ggataactcgt agttntgagc tcgc 444

<210> 45108  
<211> 268  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3076-037-Q1-K1-F11  
<400> 45108

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gcgtccttcg aatacatgaa agtgcttacc agctttctca atttcgacat tgtttccaca 120  
gctgtatatt cctatatggc ttcaatgtga tgctacgttt tcaaaataga tgatgctcta 180  
gaccttctaa agtcacggaa tgctctactg catgactnta gctctgatat tatatctaata 240  
gctttgtatg aacaccatgt gcatgcat 268

<210> 45109  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-037-Q1-K1-F4  
<400> 45109

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cggacgcgtg ggcggacgcg tgggttttca gcctcctaca ccaattcctt ctaccactca 120  
aagcaacctc cagtcttcca acaatcctga aaagccagca gctaaagcag atcctgccaa 180  
ggcaaccgct aatgggtgttc caaatggtac tggtcacact cacagttaca gtggaactgt 240

accaagccaa caaagttcag cactgacgcc tgatggaact tatagggcgc ccttgctagg 300  
 tggagttcct tctgctggtt acctagacac gacatattat gggatatgaca gcacaggggc 360  
 acaatttgca tggatatgatg gctctgctta tgcaaatgga cagcaaagaa caaccacaac 420  
 taaatcgttt ccatactcgt ca 442

<210> 45110  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-F5

<400> 45110

atacgtccat gcgttcggcg tttcctaata cagcactcac tttcagcgct aaccctacgg 60  
 ttaaggccat atcgaatgac cgaaatgtgc gaaagatggc aaggatcgca tgctcatttg 120  
 gtttgatcta tgacatgatg ctcaacaaca tcctgatctc ttattggacg ttcaaagata 180  
 actggcttat actccaatga agcgatctgc ggcttatctt tgacgaaaac tgggatgaac 240  
 atgaatctac aaagctgaat gtggaagatg tgcagttatt aatggatgat ctagagatga 300  
 ttcaagtcac tggcaaaaaga agcccggtgtg ttgtccaact agtgaggcac aaatgggtgg 360  
 gcacattatt tgccttaaaa ggtatttaaa tgaaca 396

<210> 45111  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-F7

<400> 45111

caagagacgc gcgatttcaa tgccaattta aaagaagcaa agaagcatat cgttgtgcta 60  
 aagctcaagg agatctggta tgagtatata attgaaatga actacgagca aatgttaaaa 120  
 gacatacagc ttgacctcat tcaaacttct tcaggccaga aaaccagtcc gtttggtcag 180  
 gaaaagaaaa atgtagcaca agtagatgac aagatggtaa actcacgcgg ttctattggg 240  
 ccgagccatg gacatgtggc tgacgacctc agaccgtcgc aaagtgagtc atttgggaga 300  
 gagaacaatt taatggg 317



<210> 45112  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-F9

<400> 45112

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tggagtttta aaagttgaac tcatgaaggc gccaggctta gatcgcaata agggttatgg 60
cgttattgaa tactacaacc aggcattgtgc agagtatgct aagcagaaga tgtctacccc 120
agaattcaaa ctagatacga atgctcctac tgtcagctgg gcagatccta agaatgccaa 180
tgaagctaca tctactgcac aggttaaadc tctatatgtc aaaaacctcc ccaagactgt 240
tactcaagag cagctgaaaa agctgtttga gcatgttggg gaaattacaa aagttgttgt 300
tccaccttgc aaatctgggc atgaaaatcg gtacggtttt gttcatttta aagagcggta 360
cat 363
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<210> 45113  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G1

<400> 45113

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caagagaggc ttgatttcaa ggccaattta aaagaagcaa agaagcagat cgagggtgcta 60
aagctcaagg agatcttggg tgatgatata attgaaatga actacgagca aatgttaaaa 120
gacatacagc ttgacctcat tcaaacttct tcaggccaga aaaccagtcc gtttggtcag 180
gaaaagaaaa atgtagcaca agtagatgac aagatggtaa actcacgcgg ttctattggg 240
ccgagccatg gacatgtggc tgacgacctc agaccgccgc aaagtgagtc atttgggaga 300
gagaacaatt taatggtcgt gaaagagctc agcattgaca agcaagagtt accgaggtcg 360
cttgctatgg agccacacga ggagtggaga aacaaggctg tagaaagggt ggcttttgat 420
gcc 423
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<210> 45114  
 <211> 440

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-037-Q1-K1-D8  
  
 <400> 45114  
  
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 gtccaggctc aagcatggaa gtcgcgggcg cgtcggcgag gcccgtcctg cgcgtggctg 120  
 ccatctgctg ctccctccgc aaggcctcct tcaaccgcgg cctcctccgc gccgccgcgg 180  
 aggtgtgcga ggactccatc ccgggggtcc gcatcgacga gctcgacatc tccgacctgc 240  
 ccatcatcaa caccgacctc gagaccggca gcggcagcgg caccgtcttc ccgcccgcgg 300  
 tcgaggcctt ccgcgccaa gttctgccagg ccgactgctt cctcttcggc gcgcccaggt 360  
 acaactactc catcgnacc cccctgaaga acgcgcttga ctgggcctct agaggaaaga 420  
 acttgtgggc agacaaacct 440

<210> 45115  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-037-Q1-K1-A3  
  
 <400> 45115  
  
 cgggcgacac cgagcgagac gttcacaact tctaccgttc cactaacctt tgcgccacc 60  
 accagcgacc gtttcggata gtcaagggtg cagcgtgcaa gcgggatgag cgccgcaagc 120  
 gcaaggaccg caagcggcag aggcaccttg ttgacgagct cgtgcggtgg caacctctcg 180  
 gcgccccgac gcccttcca gccgccaccg gatccgtgtc ccccttcaa gcgcatcccg 240  
 atacgccttg gccgagtgac ccgtcgccgt ctacggacct cgcggaagcc gacttctgga 300  
 gctggggccc gtccgccgta ccctcggcga cgccgacgca acccacagtc gacgtggcgg 360  
 gcgcggtccc ctttgacccc taag 384

<210> 45116  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-A5

<400> 45116

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gcatcccata tatgggacat tggccaccgg aggggtgtgat ggatttgtga atgtgtggga 120  
tggcattaac aagaaaagac tatatcatgt ctggaagtac gcatcaagca tcgctgctct 180  
atcattcagt aaggatgggc atctgctagc tgtggcatcc agctacactt atgaagaggg 240  
agaaaaaacg catgaacctg acgctatatt tattcggaca gtgaatga 288

<210> 45117

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-A9

<400> 45117

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ggtgatagct cgtagtagc catgaaagcg aatgtgctca ccaacttgat ctgctcgagc 120  
tgcgacaata aagatactat ggatgccata tgggctggaa ccttgtgcag actaaatttc 180  
acagtatcgg agcaacactt gtacgagtcg acaagtttgg aaacatatac tctgagaaac 240  
tacatgacac tcagtactga aggcatacgt gggtga 275

<210> 45118

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B10

<400> 45118

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gacgatggtt gagctcggca agggcggaagg aggtctgggc aaggcgag caaagcgcca 120  
ccgtaaggtg ctacgtgaca acatccaggg catgaccaag cccgcatcc ataggctggc 180  
tcggaggggc tgcgtgaagc gcatttcggg gcttatctac taggagacc gcggcgctcct 240  
caagatcttc ctcgagaacg tcattccgta cgcgctcacc tacaccgatc acgcacgccc 300

caagactgtt accgccatgg acgttgtcta cgcgctcaag cgctaaggcc gaaccctata 360  
 cggcttttga ggctaagctg gatgcctctt atccttgctg tcgtggattc cagtccgtta 420  
 gtagggttat ttcggtt 437

<210> 45119  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B2

<400> 45119

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 ggtcgcctgt tctacttcgg acacgactga cctgccactg ggcgctacga agaagacaca 120  
 tatgaagaag ctcatcgta aacctcaacc agattcagtc gctacccttc gattgcctga 180  
 tacggaacgt c 191

<210> 45120  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B6

<400> 45120

cgacaccgag cgagacgtcc acaactcctc ccgctccact aaccctagcg gccaccacca 60  
 gcgaccgctt cggttagtca agtctacggc gttcaagcgg gaggagcgcc gcaagcgcaa 120  
 ggaccgcaag cggcagaggc acctcgttga cgagctcgtg cgggtggcaac ctctcggcgc 180  
 cccgacgccc ctcccagccg ccaccggatc cgtgtcccc tcccgaagcg agcccgatac 240  
 gccttgggcg tgtgaccgc cgccgccttc ggaccccgcg gaagccgact cctggagctg 300  
 gggccctgcc gccgtaccct cgccgacgcc gacgcaaccc acagtcgacg tggcgggcg 360

<210> 45121  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B7

<400> 45121

ggtcaacagc acaagcacag gcgtcacatt aaaataaaat gcaccaatgt gcaacggcaa 60

cgtccattga gacatgatgt tatgcctagc cttacacaaa cattaagtcc acctataaat 120

taaaatcgtc actctagcaa atctcacaag caaaagttat aaggtagcca gctatgcctg 180

ggtagcattt tccagttgca gcaaaaaaag gatacattcc cccgcttgca gagccagggg 240

cgcattagct tcttacttcg tagcttagcg acagcaaaac cattgaacca tacagtccac 300

aggcgcactc gcataattga agagcaacca aagtgccttg aatcccatta tggtagtctg 360

cttactgttg agcgcactgg actttttggg cttcaacagg catthttatt 409

<210> 45122

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B9

<400> 45122

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gccatgggca actacctcgc gggcggggac gccgtcatcc tgctccacgt gcgccccacc 120

tccgtgctct acggcgcta ctggggcgcc gtcgacatct cccctcccaa ccctagcgcc 180

accgccgact acgaggacgg cgactgcgac tgcgactgcg aaaccgccgt cgccgcgcgc 240

acgatggagg acgactacga cgccttcacg gccaccaatg tcgacgactt cgtcagcccc 300

ctcaaggacg ccggcatccc ctacaagatc cacattgtca 340

<210> 45123

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-C2

<400> 45123

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aaggaatccc ggtcgccgag ggacaacgac ggccacggga cgcacacgtc cagcaccgcg 120

gcggggcgcg ccgtccaggg cgccgacctg ctcggtacg ctgccggcac ggccaagggc 180

atggcgcccc gcgccccgct cgccacgtac aaggtgtgct gggtcggcgg gtgcttcagc 240  
tccgacatcc tcaaagccat ggaggtcgcc gtgacggacg gcgtcgacgt gctctcgctc 300

<210> 45124  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-C5

<400> 45124

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gtgatatcaa caagttctta tggatggtag gtattggtgg aggggttttc cctgtaatca 120  
aagagccaga ttaccttggt aacgggggagt atcgatttga caagggggca gcacaaaaaa 180  
tgctgaactg cctaattgtac aagctttggt actaccgatt tggagaactt accacagaat 240  
atggaaaacc tccagggtag gaccgtgtac gaggagtggg gattggcaac aaagatataa 300  
agcttgaata cttggaagaa gcatttataa cttcaaactg gatagtgcgc atatacaaag 360  
tgaaaccccc aaagaacagg tcctgaagcg tcatcgctag tgaagtgggt tggagagcta 420  
tta 423

<210> 45125  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-C7

<400> 45125

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gtacagcaag ccagccccgg cgaacaactg aaccaaacct tcgcgcatcg tccagctatt 120  
gttgtacccg tagattgtat cctagtcgtg tgcaatcttt gaactgcacg aagatgtttg 180  
tgccctggaga cgagagattc gattcggtac gcttaattta ctattataca tttttattaa 240  
atgatgaaaa ctagggaaga tcattatata 270

<210> 45126  
<211> 280  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D1

<400> 45126

agagtgaac aacctgaact acccattccg cactgtgtgt aacatgaaac gatgctcgaa 60  
cagcaagaca gcctgggcga acaactgaac ccaaccttat cacatcgccc agctattgtt 120  
gtacccgtag attgtatcct agtcattgtc aatctttgaa ctgcacgaag atgtctgtgc 180  
ctgtagacta gagattcgat tcgttacgct taatttacta ttatacattt ttattaaatg 240  
atgaaaacta ttgaagatca ttatatcaaa aaaaaaatat 280

<210> 45127

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D11

<400> 45127

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gctgtgtctg aacaacactc agctactctt atctaatttg gagcactatc gtgcacgcgc 120  
gttatcctga tatgtgacc agtctgcaag agtatgttaa tcatcctcct gttgtgatca 180  
tcgcacctag ctactagtga caactactga agagacagga gcaaagagtt aacatgagat 240  
gaatgccccct gaccgttatg agcgtttcgt cgtgccaaaa ggcaccaaga aagtgtccta 300  
tgaaaaggga taaaagatt gtgaaaggct gcattcattt ct 342

<210> 45128

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D12

<400> 45128

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ggtcgtgggt ggtgaggatg aaagcgttga tgacacagtc gtgaagggtg ttgatattgt 120  
tgacacattc cgtctacagg agcaacctcc ttttgacaag aatcatttg tcttttacat 180

aaaaaaatac atcaagaatc tcactgctgt gttggagcca gagaaagcgg atgagttcaa 240  
aaaggggtgtc taggggtgcaa ccaatttttt tcttatcaag cttaatgacc ttttaattttt 300  
tgtttgtgag agcttgaatg accaagcgtt cttggtattt tactatttc 349

<210> 45129  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-037-Q1-K1-D3

<400> 45129

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cgctaccacc cccacgaggc cataccctcc cccacacag atcttggaag aggctgccac 120  
cccgcccccg ttcttgggcc catcaccctc cccatgcgat gctcgcctac cccacacgat 180  
gcaccccttc cttgccttgg tggcgagctt gtcgacgtcg aggagatgc gggagatgga 240  
cttggcggcc tgctccgctt tgctggcgcg ccgctgctcg aggaggcgct tggagcgatc 300  
ctnccccctc gncccgtctt cgctcgcgtt ttcgtcgccg ccgtgggtcca ctggagcggc 360  
ccttccccctc cggcccgtct tcgctcgcgc tttcgtcgcc gccgtgggtcg gctgtcgcac 420  
acgccc 426

<210> 45130  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D4

<400> 45130

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gtcctgctcg acaatgaggc catctatgac atctgcgcgc gctcccttga cattgagcgc 180  
ccaacctaca ccaacctcaa caggcttgtg tcccaggtca tctcatccct gactgcttcc 240  
ctgaagtctg atgggtgctt gaacgttgat gtgaacgagt tccagaccaa cctggtgccc 300  
taccctagga tccacttcat gcgttcgttc tacgctccag tcatttct 348



<210> 45131  
<211> 346  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D5

<400> 45131

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tttactccaa ggcaatctgg ataccgaact cattaagtca caatatgggc ccataaacta 120  
tcttctaaaa acgtctaact cccgctctat aacaagactc ctaccattac ctaatgcaag 180  
atccacatct ccatacgcac caacctttcc tttgatcttt tcaaacactc tttatcctaa 240  
ggcaccaacg tcataaccaa ctttacctcc ttctacgctt ttccatcgct ctatatgatc 300  
caatattact tacacctaca ttctacttta tagctcttct ataatg 346

<210> 45132  
<211> 215  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D6

<400> 45132

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gcctacgtat actccacatg tggaaaatgg agacatgtgc attgtactta atgcacagga 120  
tatcagtgtt acatgaagga aatgacaga taagatttac tactggcata cagggtatgt 180  
tggccatttg aaggaaaggt tgctcaaggt ccata 215

<210> 45133  
<211> 297  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-A12

<400> 45133

gcacatcaca acagcatcca ccggccatt cttcctcata gccgactgtt caactcaata 60  
ctgtccgcag tgcccacacg atcaacgcag caacataatg caccgaatct acatccccaa 120

gctagcaatt cttctgctac tctgcaccaa aacgtctccc gcctacctat cctctgcata 180  
aatccatgcg aaccaccca acaacctcgt gctcctcatg aaccgcaaga accagacgag 240  
cacgctgcct gcgctgcgca acatcacagt ccacgcctc atgcctcatg atctaca 297

<210> 45134  
<211> 168  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-E10

<400> 45134

ggcgcagatg tgtggaatcc attggaaaag aaatctaaga ttatggtata cctcggcgac 60  
taggagtaca gtcagattct tagcgttgat gcggctgctg tggagagagc aatcttgctg 120  
aaaccagggg aagagtggac tgggaagctt gaactttctg cggtttta 168

<210> 45135  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-E2

<400> 45135

gtctgccaca gagatattaa gccacaaaac cttctggtga acccacacac ccaccagctg 60  
agactgtgtg actttggcag tgcaaaagtt ctggtcaagg gggaaacaaa catatcgtac 120  
atctgctccc gatactatag ggctccagag ctcataattg gtgccactga gtataccaca 180  
gcgattgaca tttggtctgc tggatgtgtt cttgctgagc ttatgctagg gcagcctttg 240  
tttccgggtg aaagtgtgtg ggaccaactt gtcgaaatca tcaatggcct cagtacgcca 300  
acaagggaag aaattaaatg catgaaccca aattacacag 340

<210> 45136  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-036-Q1-K1-E4

<400> 45136

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tctctgcgat ggcgcgcacg aagcagacgg cgaggaagtc gaccggcggc aaggcgccgc 120

ggaagcagct ggccaccaag gcggcgcgaa agtcggcccc ggccaccggc ggcgtgaaga 180

agccgcacag gtttcgcccc ggcaccgtcg cgctccgca gatccgcaag taccagaaga 240

gcacggagct gctcatccgg aagctgcctt tccagcggct ggtgcgggag atcgcgcagg 300

acttcaagac cgaccttcgg ttccagtcct cggcgggcgc cgcgctgcan gaggccggcg 360

aggcgtacct ggtgggtctc ttcgaggaca ccaacctctg ggccatccat gccaaagagg 420

tcaccatcat gcctaaagac attc 444

<210> 45137

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-036-Q1-K1-E9

<400> 45137

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tttgttcttg gaggaatgaa tggttattgt gaaaaagatc tttatttttc aactatatca 120

cgtgtaacta ttaacttggc cctttcaact ttatctctgt gcttgaaagt gccaacacc 180

cactcctgca gtacttttgg tcaaactgcc aaagtactac ttggtactta gtgtagatg 240

ttaatagtgt gcatgtattt agtctctaata acaagggtgct gtttgcaact tgtacttcat 300

attttgctct tttgccggtt caatatgctt agctgcacat tcctagcact taacaccttt 360

aaattttaat cat 373

<210> 45138

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-F12

<400> 45138

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tcgggttcgt gtgaaatcgg atcgagatgg cggcatccga tgttgagtac cgctgcttcg 120  
tctgcggcct cacctgggcc acggacgacc actccctaca caactccttc agcacctact 180  
gcgaggtcct ctagtccaag atcatccttt atctggagac gcaaaagtcc cgcagcttct 240  
gcttcttcac cttcttcact gacgatgcga ttcataacgc catctaaggc attaacggca 300  
atgagcttta cagacgtaac atcac 325

<210> 45139  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-F6

<400> 45139

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tgagcattgc acttgagaaa tgtcttccta acaatccttc atctgatctt gggttgcgaa 120  
ggttactgtc cagggttgaa cctagcatca gtgtacttgt ctgttcaagg ggtggtggcg 180  
gtctgttgac tgaacgcatg gaacttgctg cggagctttg gaaagctaac ataatggctc 240  
agtttgttcc tcaggaagat ccaagtcttc aagaacagtg tgaatatgcc agtgaacatg 300  
atattaaatg ccttgcaatt attactgaat ctggcctgtc acaaacagac cttgtgaagg 360  
ttcggcatct tgattttaaa aagagaagga tgttgaagag agggactaat aagtatctgt 420  
ctgatgcaat gtgtttacaa 440

<210> 45140  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-G12

<400> 45140

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aagggatctg cagaggtttg ccaacgttct cacttcggcg cctgctggga ggaagtgggt 120  
gtcggatgag cttgctgtgg tggctgagtc gaaggagggt gctggggata tgatcactga 180  
ggctgtgctt gatcaggttc ttggtgagaa ggcatttgag aaatttggga agtggttcat 240

ctcgccttcgt ttttcagacc agttggcagg atcttacaag aaggtecttg cattcaagtt 300  
 tgtattgccca gatgcaagca acatgtcaga gatgacaaga ttagttgctc ttgtgccata 360  
 ctacattgat ttggttgggc cgtataagct cagctctcat gctcgtctta aaactgatgg 420  
 agc 423

<210> 45141  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-G4

<400> 45141

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 cggtgagctc atgggcgtgt actactcgca gcacagcggc gggcactggg tggacgcctc 180  
 cgcattggag tacatcgacg gcaaccggcc tgtggtgtac tcgtccagga acgggcacgc 240  
 gagctacgcg taccctggcg tgtacctgca gggctcggcg gcgctcgggg gcgggatccg 300  
 caactacgcc gctcgtagca ggctattcgt ggactccagc gcc 343

<210> 45142  
 <211> 209  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-G6

<400> 45142

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 tgctgctgct gtagagggtg gccaaactc acagtgtat gcaacttggg atgcacatgt 120  
 tcccggattg aaagtattat ctccatattc tgcagaatat gctcatggct ttctgaaagc 180  
 tgcaatcatg gatccatatt ctgttgtgt 209

<210> 45143  
 <211> 227  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-G8

<400> 45143

aggccaactc cgaggctacc ctcggcacct acaaggggtga tgctgccgtc gacggctagt 60  
gccttcacgt caaggactac aggtactgag ttgcttctct ttgcgatccc gttgttttgg 120  
aactcctgcc tgctattggg ttgctgagtg ttgtttgctt gttagagctt ttatattcgg 180  
acatgaaaaa aacatgcttc ctatgtggat gattgttata tttatat 227

<210> 45144

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H10

<400> 45144

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tgcggttggg ctacaaatgt atggggacgt tctcacttct gcgcctgctt tgaggaagtg 120  
tttgtcttat gagcttgctg tgggtggctta ttctaataatgat gttgctgggtt atatgttcac 180  
tgatgctgtg ctttatcatg ttcttggtta gaaagcattt tataaatttg tgaagtgggtt 240  
catctctctt cgtttttcat accatttttc ttgatct 277

<210> 45145

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H11

<400> 45145

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ggcttcataag gtcacagggc gtggagaaat ctaggcagaa accgcaggaa aggatgtctg 120  
ttttatctga tgtgctgcaa agaagcaact atgatgcaga gcccatgttg aaggcatgcg 180  
ggattacaat tgctagaaat ttcacagaag ttgatggtag ggtattgcag ccacctaagc 240  
ttaaagctgg gaatggtgaa gacattttta cacgcaatgg tagatggaac ttcaacaata 300  
agaggctcat tagagcttgt agtgtcgaga aatgggcggt ggtaaacttt tctgcacgat 360

gcaatgtcag ggatcttgtc cgggatctca tcaagtgtgg aggcattgaa ggcattatgg 420  
 ttgatgtccc ttt 433

<210> 45146  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H12

<400> 45146

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 ggatcatgaa caacgctatt ctagaggcga acgtagaaac agaagggggc actgaatctt 120  
 ggaagaatgc cgttctaggt ggacaactta ttctcagctt tcaccataa gttccagtcc 180  
 cagatctttt ctacggcagc aagaccaaca catcattacc tccgctgcaa cattaatctc 240  
 tgcttttgtt tgtatcatatc tttggatttt actacgcaaa gagcgaagtc tgcaatatgt 300  
 aatatgttgt ggaacagaca tgaacggtag gatttttttg gttggaattt gtggtgcgca 360  
 tgttgctgat cataattatg ata 383

<210> 45147  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H3

<400> 45147

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 ggtgagattg atagagcctt agatttaaca aagtctggag tccctgtgga agatatgcag 120  
 agcaaagtct gtttcaacaa gcttgaagat gattcttctg cgactgcagg tccatgtctg 180  
 actgggagtt caattgcagc ttcattctat aatctgatca gacatcaaaa ccaacgtagc 240  
 tctactgtga catccaatcc tgatggctgc tacgaagggtg caccttcaaa agtcgtggat 300  
 gcgcaaaaat ttgatgcgga aactctttct gtat 334

<210> 45148  
 <211> 466

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-036-Q1-K1-H6  
  
 <400> 45148  
  
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 tctcttgcaa atcttgaagg gattgagaag gcagcgccat ttctgaagcc tctgattgaa 120  
 gagcatacta ttaaatcatt catccaaggt ttccttccgg gaattgctct gaagatcttc 180  
 cttatattgc tcccaagcat attaattgtt atgtctaagg ttgaaggatt gacctcaata 240  
 tcttcactgg agagaagatc tgcacaaag tattatatatt tcatattctt caatgtgttt 300  
 ctggcaagca ttattgcagg atctgcttta gagcagctaa aaagctatat tcatcaagca 360  
 gcaaataaaa taccaaggac gattggtgaa gcaattccaa tgaatgcaac cttttttata 420  
 acatatccaa tgggtgaatg gctggactgg ggtagctggg gagata 466

<210> 45149  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-036-Q1-K1-H9  
  
 <400> 45149  
  
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 agatgactga ttgcacctgg gatcatgtca ttccttgcta ccaacaaatg caggaatgca 120  
 gtttgcaaga cggaaagacc aactctgggt aggtccaatc caaggcgttg tgtcatgata 180  
 atgatatgaa agctgtctct gtaaatggaa aaccatttta ccatttatgg gacataacat 240  
 taaccagaca ctgtgtcatg atgtcagtgt tgcaaaatca accaaggcac cctta 295

<210> 45150  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-037-Q1-K1-A1  
  
 <400> 45150  
  
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gccactgctc caccctgtgc gggccatggc gctgggcctt ctgggttggc acctgcatta 120  
cagaatgata ggcaaccagg ccctgaggaa gcaaggacta gtggttggtc atcaatggat 180  
cggcgctcgtg cccactacc aattacaagt gtggggacat tatctaagca gaaagcaccg 240  
gtaggggaatg atgctattgt ttctagagac gctgtgatat ctggaccaa tttcttggga 300  
aggtcaagtg gatcttcaag gaggcctgtt atctcgagta gccgcgatgc ggtggtcacc 360  
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<210> 45151

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-E1

<400> 45151

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agaggctaca ggagaagaac tcgcagccca agtcctcgtg gtcggtatgg aggccgtgat 120  
actgataggg acctcccaac tagtcttttg gtgaggaatc ttcgtcggga ttgtaggcct 180  
gatgaccttc gtagaccatt tggaaaattt ggccccgtta aagacatata tctgccaaag 240  
gattactaca ctcggttaacc tagaggattt gggttcatcc aatactttga tcttgatgat 300  
gcttctgatg caaagtacta tatggatggg aaga 334

<210> 45152

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-A10

<400> 45152

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gctcggccgt cttgatacgc atgaatgtga cactgctcac caacttcac cttaccttc 120  
tatactaaag atacttcaaa ctcttcttgg actgtaaccc tatgcaaact aaatttcaca 180  
atatctgtac caacacttgt acgagctgac aagttttgaa ac 222

<210> 45153  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-036-Q1-K1-A8  
  
 <400> 45153  
  
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 ttggcgacga tatccagcac atcggatgtg acatcggaac tggatatggc aacgctgact 120  
 acgccggcaa cgacgccttg aggaccatct tgcggagcat gctcgagagt gctctccaca 180  
 ctggtatcat gcacaagaac gcgcacatgg acgactacgt ccatgacaag acgcatatca 240  
 agacgcttat gctgaccatc aagcacccga tcgagcacgg catcgacaac atctagaaca 300  
 acatgcataa catcttgtac tacaagctct acaacgagct ccacgtggat cccgaggagc 360  
 acaccgaggt gctcatcgaa gcgcacgtta acccgaagga taacaccag aacatggccc 420  
 agatcatgat cgagaccttt aacaacgtcg ctatgt 456

<210> 45154  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-036-Q1-K1-B10  
  
 <400> 45154  
  
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 aacattatta agcgggtgtg tggaccaatc aggtgccaac tccgggctag aattgtcagg 120  
 aaacgataac cctagctaca ccaactcgag cagtgtgtg ccagtgccac ccgcaagcac 180  
 ccaaccagtc gagtctgctg ccgctgctgt agacgttgat tcggtcgaga aaggcccatg 240  
 tacgacacca gaacagccgg cgaagcgaat agcgaccaac gttcgacgag gacggataat 300  
 ggtgttgcca atcgcaacga gagaatgaag agcgacgtat gggggggata ttgttgctgg 360  
 atactaaata ttaacggccc aaattaaatg ggggcctt 398

<210> 45155  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-B11

<400> 45155

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tatgtactgg aaaggataag aggaatcgtg aaccatcccc tcaggaaacta caaattgctg 120  
attatatctt ctatagggtc tttgatgtta aaagtctaac actttctgat cagttaccag 180  
ataaaattgc tgcatttaca gttgatcttc ttctgaatcc aaaagatgag ctagtcatac 240  
ctgcaaattgt tctggtgaat ccaaattgtgg atgacggtat ggttgccaca gttcctacac 300  
ccccttcagc agttaaattg gaggatcgaa gtcacgctgc tgcactttcc cttacgcaga 360  
caggccatgt ggatgaaaat ctgtctggca c 391

<210> 45156

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-B12

<400> 45156

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aatg 64

<210> 45157

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-B2

<400> 45157

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agaatgctgc acgaaatggt acgggcaatt ggcacgcgcg ctggttaaac aaggaatctg 180  
agcagataca gatgactaca tgtagtgga agcgcttcaa aatgtcgatg ctgtttgtgc 240  
tgaagatgtt gactggg 257

<210> 45158  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-036-Q1-K1-B4  
  
 <400> 45158  
  
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 ggcagagtgg cagcagggac aagaacattg cggatctaca ctaaacaatga tctagtctaa 120  
 ctgcacggac gctaattgga atattgatct aagacaggag atcactctac gccttcttgg 180  
 gggacttggc ggccttcttg ggctccttgg cgccttcta ggccaccttc ttggtgagga 240  
 gcacagtgtg gatgttgggg aggacgccgt cgtgggcgat ggtgacgccg gtcagcaact 300  
 tgccgagctc ctcgtcggtg cgaatggcga ggaacacg 338

<210> 45159  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-036-Q1-K1-B5  
  
 <400> 45159  
  
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 tgacttctaa tgcgacaaac tcttggtact gtctgttct caaacagctt gcgtctgctg 180  
 tcatcagaga ctattatctc aatgctgac gtacgaaaac actctctgat ggttcttcta 240  
 ctctaaagta tcgcaacca gaatatttgc tcacgtcaa ttatctaaca ttttacctct 300  
 cactagtata tgctaag 317

<210> 45160  
 <211> 460  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-036-Q1-K1-B8  
  
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ggtagggtcac ctatgtgacc aatcctcacc attggtttca cagcacttag taagcatacg 120  
 tttgaagacc gagttggttg atttgggtctg tccattcgct ctagggagggg ctcgacttcc 180  
 tttgagctat gagaaatggg agcgcccttct tctttttttt cagggatctc cttgggtaca 240  
 aagagagcta tggagcctag ctgaaagctt gacaaggcct atttaagtga attcgggcac 300  
 ccaacaatcg cagaaagaaa ggggcattca aaaccttgca gggattcctt ctctaaggt 360  
 tgctctgaag taaccgctcg tcttgatgct ggcagtcaag aaggcaaaga gttgacttct 420  
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<210> 45161  
 <211> 211  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-C2

<400> 45161

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 ggtatatata atacatttgt taggtatttg gtctgtgttc cacatgattc attgaatttt 180  
 agtcgacaaa tatatgatca taatgggcct a 211

<210> 45162  
 <211> 107  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-C4

<400> 45162

tccactcctg cgccactcc tctgcccact ctttctttca aactgaacta tccaccacg 60  
 gacatgtgat aacttctgaa tcgcaccgta tcattcaaca atccatc 107

<210> 45163  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-C6

<400> 45163

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ccaacgggttg ctgaactcca ggacatgata aatgaggtgg atgccgacgg caatggcacg 120

atcgacttcc ccgagttcct caacctcatg gcccgcaaga tgaaggacac cgactccgag 180

gaggagctca aggaggcgtt caggggtgtc gacaaggacc agaacggctt catctctgcc 240

gcgagagctcc gccacgtgat gaccaaccta ggcgagaagc tgaccgacga ggaggtcgac 300

gagatgatcc gcg 313

<210> 45164

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-C9

<400> 45164

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aaaccttcag tgaattctta aacctttttg cgtcatcaca cttcactaca cattgtcagc 120

ttcaatttat ctcaattctt tccgttacta ctacattgaa ccattatata actttctata 180

ctacgaacac caacaatatt atactatatt ttaaacttgt attcatatca aattactctt 240

cttcataatt cttccc 256

<210> 45165

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D10

<400> 45165

ccccatataa gtttcaactg aggttacaat cattttttca acaaaacctt caagtagtac 60

tttaaccgcy tttgcgtcat cacacttcac tacacaattt tattttataat ttacgtcaat 120

tcttttctgt tctgtctaca atgaatgaat atttaactgc ttatatatttt aagaccaata 180

atatcatact atatgttaaa cttgtattca tatcatatga ctttcactta taatttttcc 240

caaaatattt aatccttggt aaatgtcttt ttactcaaa atacctttca ttgaattt 298

<210> 45166  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D11

<400> 45166

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 actacttttg tcaaaactgcc aaatctactc tgtacttacc ttagattaaa tagtgcgcat 180  
 ctattagtct ctatacaagg tgctgtttgc actttgtact tcatatttgg ctctttggcc 240  
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 aa 302

<210> 45167  
 <211> 152  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D12

<400> 45167

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 tcgaacttat gtacaacatt attcgctctc ct 152

<210> 45168  
 <211> 58  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D2

<400> 45168

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<210> 45169  
 <211> 210

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D5

<400> 45169

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 ggcgcgtcta cacacataat gagaccatcg acccgctgta ggccttctgc cgactggccc 120  
 tgtataccat cgaccttatc gaggaccctt attttatgcg catccacctc atcagctact 180  
 agtgcaagct gtgcctgaca ctgtacaaca 210

<210> 45170  
 <211> 481  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-A3

<400> 45170

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 tcgcctaagc tgcgacgacc atccatcgaa caggaaggat gacgggctcc atggatctcc 120  
 cggccaaggg cgggttcagc ttcgacctgt gccgccggaa caacatgctg gagaagaacg 180  
 gactcaaggt cccgggattc aggaagaccg ggacaaccat cgtcggcctc gtctttcagg 240  
 atggggttgt tcttggggca gacacaaggg caactgaggg ccccatagtt gctgataaga 300  
 actgtgagaa aatccacttt atggcaccga atatatactg ctgtggagca ggaactgctg 360  
 cggacacgga ggccgttaca gatatggtga gctcccagct acagcttcac cgttatgcaa 420  
 cgggccgcga atcaagagtt gtaactgctc ttacactact gaagtcacac ctcttcaagt 480  
 a 481

<210> 45171  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D6

<400> 45171

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cgccgcccgc cgtggctagg aggggtggagg tggacggcgg aggcgacggc agcgactcgt 120  
 cgtcgtcccc gagctcgtgc gtgtcgtcgg acggcagtcg agggagcaag tcgccgatgg 180  
 tgateggcgc ctgcacgcgg tgcattgatgt actgcatggg ggccaagaag gacttcccc 240  
 cctgcatcaa ctgcaagcag tcttgccctcg tggacctgct tcaactgct 288

<210> 45172

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D7

<400> 45172

gacccacgca ttcgctgacg cgtgggtcaa cttcctgaat attgttcttt gcataaagca 60  
 gtggaagagg tt 72

<210> 45173

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D8

<400> 45173

caaggataga tataaggtac atttcttcca ttgtccatac tgggtcatta tttggcgtgg 60  
 acgcgcatga gagctgcgca tcattaaatt aagagaagaa aacagtccaa aatggaccaa 120  
 agtacaatgc caaaatatgc aaaacacaag accatcaatt cctgctgcgc acagaactac 180  
 agcctccttc tgcgcatgaa aacaacagta cgcaaaataa gaacaacagc ataaagtgcc 240  
 agcagaccac acacacaact gctcttctact aatcacccaa cagaaccctt gacctaaaaa 300  
 ttgcagcacc aggaccata acctcaagat gtctagcact gggtcattat tctctgttgc 360  
 aattatgttc 370

<210> 45174

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D9

<400> 45174

tgcagccacg cgtgacgctt tctgccacac cgaaaaccct atccttcttc accttatcaa 60  
cctgccaaagt aagcactatc atcgagccct cctccgccag gaagcgcaat ccccgcgta 120  
ctatctccca cctgaagtac cacatggcgc actttaccgc cctccctcc gtccgccacc 180  
ttctcatgtc catattgctg tgcactgaac tccaacacaa ttacaacttg cgctccattc 240  
cgatcccaaa tgacgacaag gtgcatgtc 269

<210> 45175

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-G2

<400> 45175

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gtggggggttc gctaatacaga ttaccacagt tgatgaagca aaggaattct acccgttatt 120  
tggccttggg gctaataattg ctcttatctt ttctgggcgt actgtgaagt atttctcaaa 180  
tttgcgcaag acattgggtc caggaattga tggctgggaa gtatctttga aaggaatgat 240  
gagcatagtg gtactccttg gacttgtcat aacttccatc tatttgggag tgaacaagtt 300  
tgttttgaat gatccttcac ttccaaaggc tgatcgtaag aagaaaaagg gaaagcccta 360  
acttgga 368

<210> 45176

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-035-Q1-K1-G4

<400> 45176

ctctgtgtca taagggtgctt ggtcaacaag tggtttttga ttgctggtgg tgggtgtcca 60  
gaaatagaga tgtcaatgca ggtggctgct tgnncaaagg agcttcgagg gatggagagt 120  
tactgcatta aggagtttgc tgacgcactt gaggtcatcc cttacacact ggctgagaat 180

gctgggctca acccaatctc cattgtcacc gaactcagga atcgccacgc cagaggtgag 240  
aagaacactg gcatcaatgt gaggaagggg cagatcacia acatcttgga ggagaatgtc 300  
gtgcagcctt tgctgggtgag cacaagtgcc attacgctgg cctgcgagtg tgtcaggatg 360  
atcttgaaga ttgatgacat tgtcactgtt aggtgagagc atgaagtcng tggtttggtc 420  
ggattgctct gttctgtc 438

<210> 45177  
<211> 381  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-035-Q1-K1-G5

<400> 45177

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attgacttag tttgccagc ctgaggaatt tattgatgag acaagcattg atgctctagc 120  
agtttgcatt ggaaatgttc atggaaaata tccacctagt ggaccaaacc ttaaatttga 180  
cttgctaaag gaccttcgtg cattaacatt aaagaaagga gttagcttgg ttctccatgg 240  
agcatctggt ctatctcatg agctcgtaaa agagtgcata gacttgggag tgagaaaatt 300  
caatgtgaac actgaggttc ggaacaacta cctggcggtc ctcataaagc cagaaaagga 360  
cttgattcat gtgattgcgt c 381

<210> 45178  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-035-Q1-K1-G7

<400> 45178

ccggnnttga ataccggggc cggccgacgc gtacgcacag attgaaaaat taaagggttag 60  
aatagacatg attgggagtg catgccaac tgctagtaaa gttattgcag agggccgtga 120  
gagctatggg ctgggaagcc gtcattgggac aaatcttggg cctacattgg acaaagcaca 180  
agctgcaaag atacaggagc aggaaggcct acttagagca gcagtaaatt atggtgaagg 240

attacgggta cctggagatc agaggcatcc acaatctctt cctatccatc tgatagaagt 300  
gcttccttta ggagacgggtg cacaaaatTT tggtgatagt tctggtagtt atccccaaaa 360  
tatgtcaaca tttgcaccta atagtgtcaa cagccaggga aatcagattc aggcattccg 420  
aagacagtta ct 432

<210> 45179

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H11

<400> 45179

cctgaacttc actgttatcg gagacagtat ggacatgtgt ggacatggtc actgggtaag 60  
gagcaatggg aagatcgTcc acatcaatcg ggtaactggT gaagcacaag cacgtagtga 120  
aggtgtagcg gaagtaatct tcaaaggTtc aaatttTtaag ctgcaaacia ctatcactgt 180  
tctcaaggTg aaccagatag ttgttgatgc tcttgccggag aactgacta atgcagctgg 240  
cctgccggat ggatacatgt tttctgtgag atttagtgat tcaattgagc acagtattgg 300  
atcctctgcg agcccaatta atgtcccctt tgaatgcaaa gttgaccctt cttttgttgg 360  
gtttgttgag ccatggactg agcatgccac aaaaaaatcc tact 404

<210> 45180

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H12

<400> 45180

gtgaggTgta ctccagtagt agacaatgca ctctatgttc cttggatctt caacagttca 60  
actagggatg aaggTcgTcc acatcaatca aactactgat gaaacacaag ctcgatttga 120  
aggtgtatca gaagtaatct tcaaaggTtc aaatttTtaag ctgcaaacia ctatcactgt 180  
tctcaaggTg aaccagatag ttgttgatgc tcttgccggag aactgacta atgcaactgg 240  
cctgccggat ggatacatgt tttctgtgaa aattaaggat tcaattgagc acaatattgg 300  
atcctctgcg aacccaatta atgtcccctt tgaatgcaag gttgaccctt cttttgttgg 360

gtttgttgag ccatggactg agcatgccac aaaaa

395

<210> 45181

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H3

<400> 45181

cccacgcgtc cgagcagagt tacaaaaacat gtcgatcatc catacatcca tagctgtagg 60

cgaggggtcc gtcaatgccg cgcgcagcaa gaatcgcgtc ttggcaacca tgatcaagcg 120

ctgcacggac gggagcgcct tcaccaaagt cgatgcctgc aacaaagacg tccaagacct 180

cctaatacac atgcacactt tcaaccgtca agaaaagatc aggatgacgc tcgaagcgca 240

tgtagtacaa aagaccgacc atgtaccag tgctgaccga 280

<210> 45182

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H4

<400> 45182

gcgattctca cagagaaagg cctcgagagc gtgtcctagt tgcggtactg gatggccgtg 60

tcaggatggg gaggccgacg acgtgaacga acctggggag gaggagctag cctcgccagc 120

taaccatccc tcggggaaga agcgcaggag agtcaaagct gagctggtgg aggaaaacga 180

catcgcaggc ccgtcgacgg aggtgcctag gactaggagg accctgagaa gcgctaaagc 240

cgaagcagtc gaggccgacg aagaggcgtc gtccaccgca gcttcgcagc caggcagggg 300

ttctaaaaca aggaagaagt gagtgatgac tgatgatgca tgcttataaa ggaggagat 360

tgcaaatgct cctcctttgc catgtgtaga tactaccgta gacgtgctgg tatggtatcc 420

ggtgggtagt ttttc 435

<210> 45183

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-035-Q1-K1-H5

<400> 45183

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ggtnnttttg aagatcgtcc acatcaatcg ggtaactggg gaagcacaag cacgtagtga 120  
aggtgtagcg gaagtaatct tcaaagggttc aaattttaag ctgcaaaca ctatcactgt 180  
tctcaagggtg aaccagatag ttgttgatgc tcctgcgag acactgacta atgcaactgg 240  
cctgccggat ggatacaagt tttctgtgag atttagtgat tcaattgagc acagtattgg 300  
atcctctgcg agcccaatta atgtcccctt tg 332

<210> 45184  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H6

<400> 45184

cggattcccc ggcagagatg tccaagatgg cggaggagaa ggcggcggca gtgggcggac 60  
tcggaggagc cggggcggcg gacgcggcgc agcagcagca gctggcagca ggggaggccg 120  
cggcggcgcg ggtgcggccc gtggagacgc tgcttcgcgc ggcaccgctg gggctctgcg 180  
tgcccgccat gaccgtcatg ctccgtaacc agcagagcaa cgagtacggc gccgtcgcct 240  
actccgacct gggaggett c aagtacctcg tctacgcaa cggcctctgc gctgcctact 300  
cgctggtatc cgcgttctac actgccgtgc cgaggcctgc caccgtgtcg cgctcctggc 360  
tcgtcttctt cctcgaccag gtgttcacgt acctgatcct ggcggcgggc gcaacggc 418

<210> 45185  
<211> 254  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-035-Q1-K1-H7

<400> 45185

gaattccccg gcagaggtgt ccaagatggc ggagganaan gcggctgcag tgtgctttct 60

ctgaggagcc gtttcttctg acgcggcgca gcttcttcag ctggcgggag gggaagccgc 120  
 ttctttctctt tttctgcccc tggatactct tcttctcgcg gcaccgcttg ggctcttcgt 180  
 tgccccatt acccttattc ttccttacca acataacaac caattccggg ccctcgctt 240  
 cttcgacctt ggaa 254

<210> 45186

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H8

<400> 45186

gtcacggact cgcgtccaca aaccacaacc agctcactca agaacaaga acccaaccca 60  
 gggtctctcc caagccgctc ctctgtctcg ccacctcgtt cctgagctgc ggctctctgg 120  
 tggccgcgca ctacgcccc atgacctga cgtggtgaa caactgcccc taccgggtgt 180  
 ggccgggcat ccaggccaac tccgggcacg acgtcctgga gggcggcggc ttcttctctc 240  
 cgccgtcttc ccacaagtcc ttccggcgcc cgcccaccc ctggtccggc cgcactctggg 300  
 cgcgcaaggc ctgcgcgggc gccggcgccg agctccactg cgccacgggc gactgcggcg 360  
 ggcggtctca gtgcggcggg etc 383

<210> 45187

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-A10

<400> 45187

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 acacgcttcg gaggtcatca ctcgtaggaga aatctatgca gaaaccgcag gaaaggatgt 120  
 ctgtttttatc tgatgtgctg caaagaagca actatgatgc agagcccatg ttgaaggcat 180  
 gcgggattac aattgctaga aatttcacag aagttgatgg tagggtattg cagccaccta 240  
 agcttaaagc tgggaatggt gaagacattt ttacacgcaa tggtagatgg aacttcaaca 300  
 ataagggt ctt 314

<210> 45188  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-036-Q1-K1-A11  
  
 <400> 45188  
  
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 gccacgagg gcaccatggc gtccgccacg cgtgctctgg gggcgctcct ccacagggcc 120  
 tcgtctctgt ctctctccgc tcccgctctc cggggagcct cgctcctccg cggggacggg 180  
 cctattggaa gcgccggact gttccggagg catgcggcga ggcggcggaat ttctgctgttc 240  
 cagccgctct gcatgggaag acgctcctgc aaaatcgctg gaaggaaggg aggcaatcct 300  
 ttggatttca aaatgtagtt gatctaattc atgcatatgc tgccaaagct gttactgaac 360  
 aactagacca aaatgagaac cttgtatcag tcaatgcaga tgtctgccaa ttctgggaaa 420  
 agatgt 426

<210> 45189  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-036-Q1-K1-A12  
  
 <400> 45189  
  
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 ggtgatggcg ttgcccggag ccggaggcgg gggcggagga tcggcctcgt cggcggcggc 120  
 ggcagcggcg ccgtgcgcgg cctgcaagct gctgcggcgc cggcgcgcgg ccggctgcgt 180  
 ctctcgcccc tacttccgc cgggggagcc gcacaagttc gccaacgtgc acaaggctctt 240  
 cggggccagc aatgtcagca agctgctcca ggagatcccg gcgcagcacc gatgggacgc 300  
 ggtgagcagc ctggtgtacg aggccaacgc gcgcgtcatg gacccg 346

<210> 45190  
 <211> 345  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3076-036-Q1-K1-A2

<400> 45190

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agtagcaatt gggctcatca gggatgaaggc gacagtatga tggcttcaat ggagcctttg 120  
ctgtacgctg ctcatgtgga tatggtaata gcaggatcatg tccatgctta tgaacgtgcg 180  
gagcgagtct acaattccag acctgatcct tgtggcgctg tccacataac tatcggcgac 240  
ggatgggaacc gtgaaggctt gggccgcagg taccgtaacc cgaagccagc gtggatcggtc 300  
ttcagggaag cgagcttttg gcacggcgag ctaaagatcg tgaac 345

<210> 45191

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-035-Q1-K1-G12

<400> 45191

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gtcctgcgct ntcattgtgaa tttgcatcag ttgatgttag tgacgtgctg ggaacaaaca 120  
gattgaacat aacgaanact gttcgaaagt attcaattga tcggaattta gtaccaactg 180  
gatcagaatt ccaccctggg cctatcccca ttctcaataa gcattggagat gatgtcgaag 240  
aggatcacgt ggatgggtgca ttttcattgt catctcgcaa ttttgatagc ttttcacacc 300  
aatatcctgt tttggttgct aacttctatg ctccctggtg ttactggagc aatcgactga 360  
aaccctcatg ggagaagaca gcaaaaataa tgaggagag atatgaccct gaaatggat 419

<210> 45192

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-035-Q1-K1-D4

<400> 45192

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cggctataac aagggttattg tctgtgtgga agatggggcg agttttgtcg cagacgctgc 120  
 tatagtaacc gtcctctctg gngtactcaa ggcanacatc atcaagtttg agcctgagct 180  
 accgaaagag aagctctcgg caatcgccga ccttggcgtc ggtatcgaga acaagatagc 240  
 tctcaagtgc gacactgtgt ttntggcccg acgttgaagt gataggtagg ggtggccccg 300  
 acgtcaaacg cctgtggcta ctttctcaac ctttaacaaag ccacaggaaa acccgctcctt 360  
 gtgtgcatgg gtggcccgaa gggtcgcgta cgagatcgag aagctgtcgg acgaaaagtc 420  
 cgtgaacttc gtcatgtnc c aactcangaa catgc 455

<210> 45193  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-D6

<400> 45193

ccttaagggg ttttttggat tgtttatggt ccaaatgcag caacttcgga aaaaattcag 60  
 agtcgtggat ttacctatg gatttgggac agctaatact gcacttatat atcatcatgg 120  
 taaactcatg gccttgtcag aagcagataa gccatatggt gttaagggtcc ttgaagatgg 180  
 agacttgcag actcttggct tggtggatta tgacaaaagg ttgaaacatt cttttactgc 240  
 ccatccaaag gttgaccctt ttacagatga aatgttcaca ttcggatatt cacatgaacc 300  
 tccatactgt acataccgtg tgattaacaa agaaagagct atgcttgatc ctgtgccaat 360  
 aacaataccg gaatctgtaa tgatgcatga ttttgccatc acagagaatt actctatatt 420  
 t 421

<210> 45194  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-D7

<400> 45194

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 ggtgacctcc aagaggagga aaaagaatga caagagttca aaggagggaa gaaaagaaac 120

acaagaagca gccgatgggt cataggagac tgccagtgca tgacctgatg aagaagatac 180  
 cactgctgtg gacgtgaagg agcgtttgaa gaagatggct tcaatgaaga agaagagatc 240  
 gagcaaagag actgacaccg gtgccaaaat cgccgctgcc gatgccacat caaggagcgc 300  
 aaggcttgcg gcggccaaca agaaagataa tagtcattac aaccagcatc ctgtgcggta 360  
 aatgggcata aagttttgga tttgggtgct ctgaatttta tatttccttg tagttggact 420  
 cacaataata cttttttgat ctgtcgtatt ta 452

<210> 45195

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-D9

<400> 45195

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 ttttcgaatt tacttccccg gttagtgttt atttttaaat agaccaagcc cccaatttct 120  
 cctttttttt tatectcttt tcattatcaa tacaattttt tttttattct ttttctcctc 180  
 accatataaa attattattt tctttaccat atttatttac tactattctt ttttatataa 240  
 aattatttct tttatatttt ttatcattta atataatctt cctacaacaa ttcattctaa 300  
 ttttt 305

<210> 45196

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-E1

<400> 45196

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 ctaagtgttt ggagacgggt gagactgttg ccataaagaa ggttcttcag gataagcgtt 120  
 acaagaaccg tgagttgcag accatgcgcc ttcttgacca ccctaattgtt gttgctttga 180  
 agcattgctt cttttcaact actgagaagg atgagcttta tctgaacttg gtccttgagt 240  
 atgtgccgga gacagttcat cgagttgtga agcatcacia caagatgaac caacgcgatgc 300

cacttatttta tgtgaagctg tatatgtacc agatatgtag ggcattggct tacattcatg 360  
gcactattgg tgtctgccac agagatatta agccacaaaa ctttctgggtg aaccacaca 420  
cccaccagct taaactatgt gactttggca gtgc 454

<210> 45197  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-E2

<400> 45197

cccacgcgtc cgatccctga aaacctcaca aaacctctgc tcgctcccca ccaccccgcc 60  
gcgccggcgc ctgtaccagc tgcgtcaaga tgagtcggca ccctgagggtg aagtgggctc 120  
agaggatcga caaggtttac atcactgtac agttacctga cgcaaaggat gctaagggtca 180  
at ttggatcc agatgggtgc ttcacattct ctggcagtgc tggtaaaac ttgtatgaat 240  
tgaaactaga tctgaatgac aaagtaaacg ttgaggctag caaataagt gtgggggtca 300  
gggccatatt ctgtatcgta gaaaaagctg aagccaaatg gtggaagaaa ctcgttcgag 360  
atgatcaaag ggcacctcac tttgtgaaag ttgattggga caaatgggtt gatgaagatg 420  
atgatgggtgc tgatatcaac atggatggga tggactt 457

<210> 45198  
<211> 393  
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<223> unsure at all n locations  
<223> Clone ID: LIB3076-035-Q1-K1-E4

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agaacttgca aggcaaattt tgctcagttt cattgtgaag tcagtgcattg acagtttagg 180  
ttccgcccaa gctgaaccag agaggaagcc aagtggatca gatgaagcta gtaataaaca 240  
gagcagcaac ttagtcaaga atgcttctgg tcgcaaagat tcagataaac aagagaaatc 300  
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393

<210> 45199

<211> 433

<212> DNA

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<223> Clone ID: LIB3076-035-Q1-K1-E7

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gtctctccgc cctgcttgct tcttcgtcca ccacttcgcc gtcgacacga tgggtgaggg 180  
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tcgctttcttc gaggagatcc aggcaaggca agccgctcgc cggctgaata tcggcggcga 360  
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<210> 45200

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-E9

<400> 45200

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aacttgaaat gtacatggaa aaccataaga aagtcatggg tgattctctg tggaagctta 180  
acgttgctga catagaagcc acattatccc atgtctgtca aatgggtactt caagacagta 240  
gtgccagaaa ggaggaattg cgctccgtg ctaaaggctt aaaaacttta ggaagaattt 300  
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 <211> 350  
 <212> DNA  
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 <223> unsure at all n locations  
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 ctannggctt nnacttagta cccagtagca caaaaaatta aagagggttc tgcataaggt 240  
 aaatagcnnt ttgtttctta accatttcan nttcattcca ttatntact gattgagaag 300  
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<210> 45203  
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tgattgaaag acatgaaacg actcaaattc aatccaatgc atattgattg atggattgat 180  
attactaccg aaaaaaaagg ttcactccga tctggcggct tatctttcca cctttgtgtc 240  
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<210> 45204

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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ccaggctctc attatcatct tcttgggact catatggagg aaagaataga cactccaaac 180  
taaaagtttt gaaacacact atcagcctct aaacccccat aagaaaataa tctcaaaatt 240  
gacgtctcgg ctttgactcc gcagccgtga ctcggatctg tctaccatcc aagtcgatgc 300  
catcgagggt tgatatggca ttgttgacct cttgggcgga gccatagggt acgaaaccaa 360  
accccttga cctgccgcta tcctgtcgt agatgacctt agcatcaagc acttgcctt 420  
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<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-G10

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agcgcgttga gaagctcagg gagatccagg gcgaacacga tgaacttgag gcgaagtttt 180